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FIGURE 5196B

AGTTTGCAGCCTATACCTCAATAAAACAGGGATATTTTAAATCACATACCTGCAGACAAACTGGAGCAATGTTAT
TTTTAAAGGGTTTTTTTTCACCTCCTTATTCTTAGATTATTAATGTATTAGGGAAGAATGAGACAATTTTGTTAG
GCTTTTTCTAAAGTCCAGTACTTTGTCCAGATTTTAGATTCTCAGAATAAATGTTTTTCACAGAT

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FIGURE 5197A

GTGCGCCAGCAACCGAGCGGGGCCCCGGCCCCGAGCGGGGCCTGGGGGTGCGACGCCGAGGGCGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCCAGAACCCAGCTGTAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCACCAGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGATGACCTTGAACGAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCAGTGGAACATCGGGA
GCCTCCGGACCATCTGGACATGGTGGAGCGGAGTGGCGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCTGTGACGCCATCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCTGAAGA
AGTACGGGATCCCCCTTCAGCCGGATCACGCAGGAGGCCGGGAATTCATGATCACATTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGGAAGGACATGGTCAAGATCTCCATGGACGTGTTCTGCGCATCCTGCAGCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGTGGACCACACGCGGCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCATCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGAGGTCTCACCAGAAACGGA
GCCAGCCCAAGAAGCCGAAGCCCAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCGAGCGTGAAGGAGGAGGCTGGGCGGAGGTTGACCCCGAGGAGGAGGAGGAGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCGCCCTGCTCACTTCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCTGTCGCCCTGAGGTGCCAGTGAAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCTGCCAGCAGGCCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACAGTTTCCCCATGGAGCTGACGGGGCCAGAGGACGGTGCAG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAGCCCGGGCCGGAGAGGGGCAGGCACCGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCTGGGCCGGCGCCCAACCCGGTCCCCACTGTCCGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCATAGCCTCCCTCGGAAAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTCAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGTGCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCCTGGACTGCGGAGTGTGCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAAGTCCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCT
TCCAGTGACCTGCGCCACGCCGAGCGGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCCGGGGGTACGCTGTCCAACCTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCAACCA
AGAACCGAACGGGCTGTACTACCGCTGTGCGTTCATCGGTGCCGCTCGCAGACCTGTACGAAGTGAACCTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCAGAGTAGGGACTGTGTCCAGCTGGGACCCCTT
CCGAGGGGAGTGGTGGAGCTCCGGTGGAGTGACGGCAACCTCTACAAGGCCAAGTTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGTCCCAGCTGACGGTGAAAGCTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGACCCGAGGAGCCCGCTTCTCGGGG
AGGAGGCCAAGGCCGCCAAGCGCCCGCTGTGGGACCCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCCTGCAGGTGACGGGCGGGCCGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCTCAGCCCGGCGGGGAGGCCATGGCATGCCCCGGCGTTCTGCTGTGTAATCTCTGCTCTGCTGTC

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FIGURE 5197B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAACAAAACAAAACACA
TTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTGAGAGCATCTCGCTGTTTTTTTTGTGTTGTTTTAAATATT
ATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGAGGACGC
CCCGGTTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTGG
TGCCAGTGCCCTGTGCCACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTGG
CCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGTT
TGTCTATCTTTGTTTTCTCTACCTGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTGC
ACCTCCTATGGCTCAGGATGAGGGAGGCCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTGGACAGCTTCCCAGCTC
TTCGGGTACAACCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCCTTCGGGGCCCCCTTCGCTGCTTCCG
GGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGGA
GTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTCA
CCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAAT
TTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCATC
ACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGTG
GGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACCTCCAGCCTGGGCAAC
AGAGCGAGACCCTGTCTCCAAAAAAGCAATGTTTATATTATAAAGAGTGTCTAACAGTCCCCGGG
CTAGAGAGGACTAAGGAAAACAGAGAGAGTGTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGGGG
CGGTTGCCCTGGAGAGGGCCGGGGTGGGGAGGTGGGGGGTGTGAGCCAAAACGTGGAGGTGTCCCTCTGCACG
CAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAAAATGCTATTTATATTGTAAAGAAGCG
GGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGCAG
ATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAAAG
ACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTCCC
TGCTCTAGGTTTATAATGAATTAAAGGTTTATGAACGCTGC

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FIGURE 5198

MGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPKEWKPRQTYDDIDDDVVIPAPIQQV
VTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDRLERKYWKNLTFVSPYIYGADISGSLYDDDDVAQWN
IGSLRTIILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGEPKSWYAIPPEHGKRLERLAI
GFFPGSSQGCDALRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYHAGFNHGFNCAESTNFATLRWIDY
GKVATQCTCRKDMVKISMDVFVRILQPERYELWKQKDLTVLDHTRPTALTSPELSSWSASRASLKAKLLRRSHR
KRSQPKKPKPEDPKFPGEGETAGAALLEEAGGSVKEEAGPEVDPEEEEEEPQPLPHGREAEAGAEEDGRGKLRPTKA
KSERKKKSFGLLPPLPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPLPAPLNVVPPEVPSEELEAKPRPI
IPMLYVVRPGKAAFNQEHVSCQQAFAEHFAQKGPTWKEPVSPMELTGPEDGAASSGAGRMETKARAGEGQAPSTF
SKLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDALRPLLSLQWKNRAASFQAERKFNA
AAARTEPYCAICTLFYPYCQALQTEKEAPIASLGKGCPTLPKSRQKTRPLIPEMCFITSGGENTEPLPANSYIG
DDGTSPLIACGKCCQLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNLRGGALQMTTDRRWIHVICAIAVP
EARFLNVIERHPVDISAIPEQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTSFHVTCAHAAGVLMEPDDWPYVVS
ITCLKHKSGGHAVQLLRAVSLGQVVIITKNRNGLYYRCRVIGAASQTCYEVNFDDGSYSDNLYPESITSRDCVQLG
PPSEGELVELRWTDGNLYKAKFISSVTSHIYQVEFEDGSQTLTVKRGDIFTLEEELPKRVR SRLSLSTGAPQEPAF
SGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 5199

TGCGACTGAGTCGGTGGCGAAGACGGGAACGCGACGATGCGGAGACTCTGCCCGGGTCGGGCGACTCGGGCCCT
GGCACGGCTTCTCTCGGCCCGGGCGTTGCGGAGACTGGGACGAGGCGGCTCAGCGAGCTGCGGGTGATCGATCTG
CGGGCGGAGCTGAAGAAGCGGAACCTGGACACGGGCGGCAACAAGAGCGTCCTGATGGAGCGGCTCAAGAAGGCG
GTTAAAGAAGAGGGGGCAAGATCCTGATGAAATTGGCATCGAGTTAGAAGCCACCAGCAAGAAGTCAGCCAAGAGA
TGTGTTAAAGGACTGAAGATGGAGGAGGAAGGCACAGAAGATAATGGCCTGGAAGACGATTCCAGAGACGGGCAG
GAGGACATGGAAGCAAGTCTGGAGAACCTGCAGAATATGGGCATGATGGACATGAGTGTGCTAGACGAAACTGAA
GTGGCGAATAGCAGTGCTCCAGATTTTGGGGAGGATGGCACGGACGGCCTTCTCGATTCTTTTGTGATAGTAAA
GAATACGTGGCTGCACAGCTGAGACAGCTCCCGGCTCAGCCCCAGAGCATGCTGTGGATGGGGAAGGATTTAAG
AACACTTTGGAAACTTCATCGTTGAACTTCAAAGTAACTCCGGACATTGAAGAATCCCTTTTGGAGCCAGAAAAT
GAGAAAATACTCGACATTTTGGGGGAAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAG
CCATTTGCACAGGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGCAGGAGGAAGAGGACCTATTTGACAGCGCC
CATCCGGAAGAGGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTG
TTAGCGGTAGTGAAGAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTA
GAGCCGGCAGTTGAGCAGAGTAGTGCGGCCCTCCGAGCTCGCGGAGGCCTCTAGCGAGGAGCTCGCAGAAGCACCC
ACGGAAGCCCCAAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAA
GTCCCTCCGGCTCCTAAAGAGTCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGCTCTTTTAAGGAAGAAAAA
GATATAAAGCCAATCATTAAAGATGAAAAAGGTGGGTGCGGCAGCGGTTCTGGTCGGAACCTGTGGGTGAGCGGG
CTGTCTCCACAACACGCGCTACGGATCTCAAGAACCTTTTCAGCAAGTATGGGAAGGTTGTCGGGGCCAAAGTG
GTAACGAACGCCCGCAGCCCGGGGGCTCGATGCTATGGATTCTGTCACCATGTGACATCTGACGAGGCACCAAG
TGCATCAGCCATCTCCACAGAATGAGCTGCATGGACGAATGATCTCCGTAGAGAAGGCCAAAAATGAGCCTGCT
GGGAAAAAGCTTTCCGACAGAAAAGAGTGCGAAGTGAAGAAGGAAAAATTATCGAGTGTCGACAGACATCATTCT
GTGGAGATCAAAATTGAAAAACTGTAATTAAGAAGGAAGAGAAGATTGAGAAGAAGGAGGAAAAAAGCCTGAA
GACATTAAGAAGGAAGAAAAAGACCAGGATGAGCTGAAACCCGGACCTACAAATCGGTCTAGAGTCACCAAATCA
GGAAGCAGAGGAATGGAGCGGACGGTCTGATGGATAAATCGAAAGGAGAGCCCGTCATTAGCGTGAAAACCA
AGCAGGTCCAAAGAGAGAAGCTCCAAGAGTCAGGATCGCAAGTCAGAAAGCAAAGAAAAGAGAGACATCTTGTCG
TTTGATAAAATCAAAGAACAAGGGAGAGAGAGCGCCAGAGGCAGCGGGAACGGGAGATCCGCGAAACGGAGAGG
CGCGGGGAGCGCGAGCAGCGGGAGCGGGAGCAACGCCCTCGAGGCCTTCCATGAGCGGAAGGAGAAGGCCCGGCTA
CAGCGGGAACGCCGTCAGCTCGAGTGCCAGCGCCAGCGGCTGGAGCGGGAGCGCATGGAGCGGGAGCGGCTGGAG
CGCGAGCGCATGCGCGTGGAGCGTGAGCGCAGGAAGGAGCAGGAGCGCATCCACC GCGAGCGCGAGGAGCTGCGG
CGCCAGCAGGAGCAGCTGCGTTACGAGCAGGAGCGGCGGCCCGGGCGGAGGCCCTACGACCTGGACCGACGAGAT
GATGCCTATTGGCCAGAAGGAAAGCGTGTGGCAATGGAGGACCGATATCGTGACACTTTCCCCGGCCAGACCAC
CGCTTTCACGACTTCGATCATCGAGACCGGGGCCAGTACCAGGACCACGCCATCGACAGGCGGGAGGGTTTCGAGG
CCAATGATGGGAGACCACCGGGATGGGCAGCACTATGGAGATGACCGCCATGGCCACGGAGGACCCCCAGAGCGC
CACGGCCGGGACTCCCGTGATGGCTGGGGGGGCTACGGCTCCGACAAGAGGCTGAGTGAAGGCCGGGGGCTGCC
CCTCCCCCAGGGGTGGCCGTGACTGGGGAGAGCAACACAGCGGCTAGAGGAGCACCAGGCACGCGCCTGGCAG
GGTGCCATGGACGCAGGCGCGGCTAGCCGGGAGCAGCCAGGTGGCAAGGTGGCGAGAGGGGCTGTCTGGGCC
TCGGGGCCGGGGCACATGGCAAGCCGCGGTGGAGTGGCGGGGCGAGGCGGCTTTCACAAAGGTGGACATTCCAG
GGCCACGTGGTGCCAGGTGGCGGACTGGAAGGTGGCGGAGTGCCAGCCAGGACCGGGGACGAGAGTCCCTCAC
CCACACCCTCATCCCCCGTACCCCCACTTCACCGCGGCTACTAAGTCCCACTCGCTGTGAGTTTTTCGGGTG
GGCAGACGCACTGTTGAATCTGGTAGCCAGGGTTCCCTCGAAGTTGGGGGATCTTTTAAAGCAAAGTAAATCC
TGCCACCATGTTGTAGCTCAATACAATGTGAAGTCACTTTTTTTTTTTTTTTTAAATAAATGTGTTCTTGTCG
CATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTCCATTAATAAAGTTTACCATTGCAAAAAAAA
ATGTGTTCTTGTTCTGCCATTTTTAAATCAAGGTTTCTGTTAACGAGGCATTCCATTTCCATTAATAAAGTTT
CCATTCG

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FIGURE 5200

MAETLPGSGDSGPGTASLGPGVAETGTRRLSELRVIDLRAELKKRNLDTGGNKSVLMERLKKAVKEEGQDPDEIG
IELEATSKKSAKRCVKGLKMEEEGTEDNGLEDDSRDGGQEDMEASLENLQNMGMMDMSVLDTEVANSSAPDFGED
GTDGLLDSFCDSKEYVAAQLRQLPAQPPEHAVDGEFGKNTLETSSLNFKVTPDIEESLLEPENEKILDILGETCK
SEPVKEESSELEQPFAQDTSSVGPDRKLAEEDLFD SAHP EEGDL DLASESTAH AQSSKADSL LAVVKREP AEQP
GDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPPEARDSKEDGRKFDFDACNEVPPAPKESSTSE
GADQKMSSFKEEKDIKPIIKDEKGRVSGSGRNLWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARC
GFVTMSTSD EATKCI SHLHRT ELHGRMISVEKAKNEPAGKKLSDRKECEVKKEKLSSVDRHHSVEIKIEKTVIKK
EEKIEKKEEKKPEDIKKEEKDQDELKPGPTNRSRVTKSGSRGMERTVMDKSKGEPVISVKTTSRSKERSSSKSQD
RKSESKEKRDILSFDKIKEQRERERQRQREREIRETERRREREQREREQRLEAFHERKEKARLQERLQLECQRQ
RLERERMERERLERERMRVERERRKEQERIHREERELRRQQEQLRYEQERRPGRRPYDLDRRDDAYWPEGKRVAM
EDRYRADFP RPDHRFHD FDRDRGQYQDHAIDRREGSRPMMGDHRDGQHYGDDRHHGHHGPPERHGRDSRDGWGGY
GSDKRLSEGRGLPPPPRGGRDWGEHNQRLEE HQARAWQ GAMDAGAASREHARWQGGERGLSGPSGPGHMASRGGV
AGRGGFAQGGHSQGHVVPGGGLEGGGVASQDRGSRVPHPHPHPPYPHFTRRY

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FIGURE 5201

GACCGGGGCGTGCGGAGGGATGTGGCCCCGGAATATTGGTAGGGGGGGCCCCGGGTGGCGTCATGCAGGTACCCCGC
GCTGGGGCCTCGCCTCGCCGCTCACTTTCCAGCGCAGCGGCCGCCGAGCGGACACTCCAGAACGGCCTGGCCCT
GCAGCGGTGCCTGCACGCGACGGCGACCCGGGCTCTCCCGCTCATTCCTCATCGTGGTGGAGCAGACGGGTGCGGG
CGAGCGCGCCTATGACATCTACTCGCGGCTGCTGCGGGAGCGCATCGTGTGCGTCATGGGCCCCGATCGATGACAG
CGTTGCCAGCCTTGTTATCGCACAGCTCCTCTTCCTGCAATCCGAGAGCAACAAGAAGCCCCATCCACATGTACAT
CAACAGCCCTGGTGGTGTGGTGACCGCGGGCCTGGCCATCTACGACACGATGCAGTACATCCTCAACCCGATCTG
CACCTGGTGCCTGGGCCAGGCCGCCAGCATGGGCTCCCTGCTTCTCGCCGCCGGCAGCCCCAGGCATGCGCCACTC
GCTCCCCAACTCCCGTATCATGATCCACCAGCCCTCAGGAGGCGCCCGGGGCCAAGCCACAGACATTGCCATCCA
GGCAGAGGAGATCATGAAGCTCAAGAAGCAGCTCTATAACATCTACGCCAAGCACACCAAACAGAGCCTGCAGGT
GATCGAGTCCGCCATGGAGAGGGACCGCTACATGAGCCCCATGGAGGCCAGGAGTTTGGCATCTTAGACAAGGT
TCTGGTCCACCCTCCCCAGGACGGTGAGGATGAGCCACGCTGGTGCAGAAGGAGCCTGTAGAAGCAGCGCCGGC
AGCAGAACCTGTCCAGCTAGCACCTTGAGAGCTGGGCCTCCTCTCCAGAATCATGTGGAGGGGCCAGAGGCTTGC
CAGACCCCCAGCTGGGCCCTGCTCACCCCTTGTTGCTGGGCTTGAGGGGCCCTTTGAGGAACTTTTAATTTGCA
GGGGTGCCCGCTATGGACGGGGCATTCCAGCTGAGACACTGTGATTTTAAATTAAATCTTTGTGGTCTT

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FIGURE 5202

MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLAHQRLHATATRALPLIPIVEQTGRGERAYDI
YSRLLRERIVCMGPIDDSVASLVIAQLLFLOQSESNKKPIHMYINSPGGVVTAGLAIYDTMQYILNPICWCVGQ
AASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEEMKLKKQLYNIYAKHTKQSLQVIESAME
RDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST

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FIGURE 5203

TGTGGAGCGAAGCCTTGTTCCTCGCTTGAGCCGCCGCCGCCGCCGCCCTCCTCAGCTTCAGCCTCCGCGCCAG
GCCCCGCCCCCGCGGCCATGTCGGACTACAGCACGGGAGGACCCCCCGCCGGGCGCCGCCGCCGCCGCCGCCGCGG
GGCGGGGGAGCCGGAGGCGCCGGGGGAGGCCCTCCGCCGGGCCGCCAGGCGCGGGGGACCGGGCGGCGGCGGT
CCCTGCGGCGGCGGCCCCGGGCGGGGGTCCGCCGGGGGCCCTCTCAGCCACCCGGCGGAGGCGGCCCGGGAATC
CGCAAGGACGCTTTTCGCCGACGCCGTGCAGCGGGGCCGCCAGATTGCAGCCAAAATTGGAGGCGATGCTGCCACG
ACAGTGAATAACAGCACTCCTGATTTTGGTTTTGGGGGCCAAAAGAGACAGTTGGAAGATGGAGATCAACCGGAG
AGCAAGAAGCTGGCTTCCAGGGAGACTCAATCAGTTCTCAACTTGGACCCATCCATCCTCCCCAAGGACTTCA
ATGACAGAAGAGTACAGGGTCCAGACGGCATGGTGGGCCTGATCATTGGCAGAGGAGGTGAACAAATTAACAAA
ATCCAACAGGATTAGGCTGCAAAGTACAGATTTCTCCAGACAGCGGTGGCCTACCCGAGCGCAGTGTGTCTTG
ACAGGAGCCCCAGAATCTGTCCAGAAAGCCAAGATGATGCTGGATGACATTGTGTCTCGGGGTCTGGGGGCCCC
CCAGGACAGTTCCACGACAACGCCAACGGGGGCCAGAACGGCACCGTGCAGGAGATCATGATCCCCGCGGGCAAG
GCCGGCCTGGTCATTGGCAAGGGCGGGGAGACCATTAAAGCAGCTGCAGGAACGCGCTGGAGTGAAGATGATCTTA
ATTAGGACGGATCTCAGAATACGAATGTGGACAAACCTCTCCGCATCATTGGGGATCCTTACAAAGTGCAGCAA
GCCTGTGAGATGGTGTGACATCCTCCGGGAACGTGACCAAGGCGGCTTTGGGGACCGGAATGAGTACGGATCT
CGGATTGGCGGAGGCATCGATGTGCCAGTGCCAGGCATTCTGTTGGCGTGGTCATTGGCCGGAGTGGAGAGATG
ATCAAGAAGATCCAGAATGATGCTGGCGTGCAGTACAGTTCAAGCAAGATGACGGGACAGGGCCCCGAGAAGATT
GCTCATATAATGGGGCCCCCAGACAGGTGCGAGCACGCAGCCCGGATCATCAACGACCTCCTCCAGAGCCTCAGG
AGTGGTCCCCCAGGTCTCCAGGGGGTCCAGGCATGCCCCGGGGGGCCGAGGCCGAGGAAGAGGCCAAGGCAAT
TGGGGTCCCCCTGGCGGGGAGATGACCTTCTCCATCCCCACTCACAAGTGTGGGCTGGTCATCGGCCGAGGTGGC
GAGAATGTGAAAGCCATAAACCAGCAGACGGGAGCCTTCGTAGAGATCTCCCGGCAGCTGCCACCAACGGGGAC
CCCAACTTCAAGTTGTTTCATCATCCGGGGTTTACCCAGCAGATTGACCACGCCAAGCAGCTTATCGAGGAAAAG
ATCGAGGGTCTCTCTGCCAGTTGGACAGGGCCAGGTGGCCCAGGCCCTGCTGGCCCAATGGGGCCCTTCAAT
CCTGGGCCCTTCAACCAGGGGCCACCCGGGGTCCCCACATGCCGGGGGGCCCCCTCCTCACCAGTACCCACCC
CAGGGCTGGGGCAATACCTACCCCAAGTGGCAGCCGCTGCTCCTCATGACCCAAGCAAAGCAGCTGCAGCGGCC
GCGGACCCCAACGCCGCGTGGGCCGCCTACTACTCACACTACTACCAGCAGCCCCCGGGCCCCGTCCCCGGCCCC
GCACCGGCCCTGCGGCCCCACCGGCTCAGGGTGAGCCCCCTCAGCCCCACCCACCGGCCAGTCCGACTACACT
AAGGCCTGGGAAGAGTATTACAAAAGATCGGCCAGCAGCCCCAGCAGCCCGGAGCGCCCCACAGCAGGACTAC
ACGAAGGCTTGGGAGGAGTACTACAAGAAGCAAGCGCAAGTGGCCACCGGAGGGGGTCCAGGAGCTCCCCCAGGC
TCCCAGCCAGACTACAGTGGCGCTGGGCGGAATATTACAGACAGCAGGCGCTTACTACGGACAGACCCCAAGT
CCTGGCGGCCCCCAGCGCGGCCACGCAGCAGGGACAGCAGCAGGCTCAATGAATCGAATGAATGTGAATTCT
TCATCTGTGAAAAATCTTTTTTTTTTCCATTTTGTCTGTTTGGGGGCTTCTGTTTGTGTTGGCGAGAGCGAT
GGTGGCGTGGGAGTACTGGGGAGCCCTCGCGGAAGCAGGGTGGGGGGGACTTGGGGGCATGCCGGGCCCTCAC
TCTCTGCGCTGTTCTGTGTCTCACATGCTTTTTCTTTCAAATTGGGATCCTTCCATGTTGAGCCAGCCAGAGAA
GATAGCGAGATCTAAATCTCTGCCAAAAAATAAACTTAAAAATTAAAAACACAAAGAGCAAAGCAGAACTT
ATAAAATTATATATATATATATATATAAAAGTCTCTATTCTTACCCCCCAGCCTTCTGAACCTGCCTCTCTGAGG
ATAAAGCAATTCATTTTCTCCACCCCTCGGCCCTCTGTTTTTAAATAAACTTTTAAAAAGGAAAAAAGT
CACTCTTGCTATTTCTTTTTTTTAGTTAGAGGTGGAACATTCTTGGACCAGGTGTTGTATTGCAGGACCCCTTC
CCCCAGCAGCCAAGCCCCCTCTTCTCTCCCTCCCGCCTGGCTCAGCTCCCGCGGCCCGCCCGTCCCCCTCCC
AGGACTGGTCTGTTGTCTTTTCATCTGTTCAAGAGGAGATTGAACTGAAACAAAATGAGAACAACAAAAAAA
TTGTATGGCAGTTTTTACTTTTTATCGCTGTTTTTAACTTCACAAATAAATGATAACAAAACCTCAAAAAAAA
AAAAAAA

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FIGURE 5204

MSDYSTGGPPPGPPPPAGGGGGAGGAGGGPPPGPPGAGDRGGGGPCGGGPGGGGSGAGGPSQPPGGGGPGIRKDAFA
DAVQRRARQIAAKIGGDAATTVNNSTPDFGFGGQKRQLEDGDQPESKKLASQGDSISSQLGPIHPPPRTSMTTEEYR
VPDGMVGLIIGRGGEQINKIQD SGCKVQISPDSGGLPERSVSLTGAPESVQKAKMMLDDIVSRGRGGPPGQFHD
NANGGQNGTVQEIMIPAGKAGLVIGKGETIKQLQERAGVKMILIQDGSQNTNVDKPLRIIGDPYKVQQACEMVM
DILRERDQGGFGDRNEYGSRI GGGIDVPVPRHSVGVVIGRSGEMIKKI QNDAGVRIQFKQDDGTGPEKIAHIMGP
PDRCEHAARIINDLLQSLRSGPPGPPGGPGMPPGGRGRGRGQGNWGPPGGEMTFSIPTHKCLVIGRGGENVKAI
NQQTGA FVEISRQLPPNGDPNFKLFIIRGSPQQIDHAKQLIEEKIEGPLCPVGP GPGGPGPAGPMGPFNP GPFNQ
GPPGAPPHAGGPPPHQYPPQGWNTPQWQPPAPHDPSKAAAAAADPNAAWAAYYSHYYQQPPGPFVPGPAPAPAA
PPAQGEPPQPPPTGQSDYTKAWEEYYKKI GQQPQQPGAPPQQDYTKAWEEYYKKQAQVATGGGPGAPPGSQPDYS
AAWAEYYRQQAAYYGQTPGPGGPQPPPTQQGQQQAQ

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FIGURE 5205A

CTCCTCCCCATCCTCTCCCTCTGTCCCTCTGTCCCTCTGACCCTGCACTGTCCCAGCACCATGGGACCCACCTCA
GGTCCCAGCCTGCTGCTCCTGCTACTAACCACCTCCCCCTGGCTCTGGGGAGTCCCATGTACTCTATCATCACC
CCCAACATCTTTGCGGCTGGAGAGCGAGGAGACCATGGTGTGGAGGCCACGACGCGCAAGGGGATGTTCCAGTC
ACTGTTACTGTCCACGACTTCCAGGCCAAAACTAGTGCTGTCCAGTGAGAAGACTGTGTGACCCCTGCCACC
AACCACATGGGCAACGTACCTTCACGATCCCAGCCAACAGGGAGTTCAAGTCAGAAAAGGGGCGCAACAAGTTC
GTGACCGTGCAGGCCACCTTCGGGACCCAAGTGGTGGAGAAGGTGGTGTGGTGCAGCTGCAGAGCGGGTACCTC
TTCATCCAGACAGACAAGACCATCTACACCCCTGGCTCCACAGTTCTCTATCGGATCTTCACCGTCAACCACAAG
CTGCTACCCGTGGGCCGGACGGTCATGGTCAACATTGAGAACCCGGAAGGCATCCCGGTCAAGCAGGACTCCTTG
TCTTCTCAGAACCAGCTTGGCGTCTTGCCCTTGTCTTGGGACATTCCGGAACCTCGTCAACATGGGCCAGTGGAAG
ATCCGAGCCTACTATGAAAACCTACCACAGCAGGTCTTCTCCACTGAGTTTGAGGTGAAGGAGTACGTGCTGCCC
AGTTTCGAGGTCAAGTGGAGCCTACAGAGAAATTCTACTACATCTATAACGAGAAGGGCCTGGAGGTACCATC
ACCGCCAGGTTCTCTACGGGAAGAAAGTGGAGGGAAGTGCCTTTGTCTCTTCGGGATCCAGGATGGCGAACAG
AGGATTTCCCTGCCTGAATCCCTCAAGCGCATTCCGATTGAGGATGGCTCGGGGGAGGTTGTGCTGAGCCGGAAG
GTACTGCTGGACGGGGTGCAGAACCCCGAGCAGAAGACCTGGTGGGGAAGTCTTTGTACGTGTCTGCCACCGTC
ATCTTGCACTCAGGCAGTGACATGGTGCAGGCAGAGCGCAGCGGGATCCCCATCGTGACCTCTCCCTACCAGATC
CACTTCACCAAGACACCCAAGTACTTCAAACCAGGAATGCCCTTTGACCTCATGGTGTCTGTGACGAACCTGAT
GGCTCTCCAGCCTACCGAGTCCCCGTGGCAGTCCAGGGCGAGGACACTGTGCAGTCTTAACCCAGGGAGATGGC
GTGGCCAACTCAGCATCAACACACACCCCGAGCCAGAAGCCCTTGAGCATCACGGTGCACGAAGAAGCAGGAG
CTCTCGGAGGCAGAGCAGGCTACCAGGACCATGCAGGCTCTGCCCTACAGCACCGTGGGCAACTCCAACAATTAC
CTGCATCTCTCAGTGCTACGTACAGAGCTCAGACCCGGGGAGACCCTCAACGTCAACTCTCTCCTGCGAATGGAC
CGCGCCACGAGGCCAAGATCCGCTACTACACCTACCTGATCATGAACAAGGGCAGGCTGTTGAAGGCGGGACGC
CAGGTGCGAGAGCCCGGCCAGGACCTGGTGGTGTGCCCCGTGCCATCACCACCGACTTCATCCCTTCTCTCCGC
CTGGTGGCGTACTACACGCTGATCGGTGCCAGCGGCCAGAGGGAGGTGGTGGCCGACTCCGTGTGGGTGGACGTC
AAGGACTCCTGCGTGGGCTCGCTGGTGGTAAAAAGCGGCCAGTCAGAAGACCGGCAGCCTGTACCTGGGCAGCAG
ATGACCCTGAAGATAGAGGGTGACCACGGGGCCCGGGTGGTACTGGTGGCCGTGGACAAGGGCGGTGTTCTGTGCTG
AATAAGAAGAACAACTGACGCAGAGTAAGATCTGGGACGTGGTGGAGAAGGCAGACATCGGCTGCACCCCGGGC
AGTGGGAAGGATTACGCCGGTGTCTTCTCCGACGCAGGGGTGACCTTCACGAGCAGCAGTGCCAGCAGACCGCC
CAGAGGGCAGAACTTCAGTGCCCGCAGCCAGCCGCCCGCCGACGCCGTTCGGTGCAGCTCACGGAGAAGCGAATG
GACAAAGTCGGCAAGTACCCCAAGGAGCTGCGCAAGTGTGCGAGGACGGCATGCGGGAGAACCCCATGAGGTTT
TCGTGCCAGCGCCGGACCCGTTTCTCTCTCCCTGGGCGAGGCGTGAAGAAGGTCTTCTTGAGTGTGCAACTAC
ATCACAGAGCTGCGGCGGCAGCACGCGCGGGCCAGCCACCTGGGCCTGGCCAGGAGTAACCTGGATGAGGACATC
ATTGCAGAAGAGAATCGTTTCCCGAAGTGAGTTCCAGAGAGCTGGCTGTGGAACGTTGAGGACTTGAAAGAG
CCACCGAAAAATGGAATCTCTACGAAGCTCATGAATATATTTTTGAAAGACTCCATCACCACGTGGGAGATTCTG
GCTGTGAGCATGTGCGACAAGAAAGGGATCTGTGTGGCAGACCCCTTCGAGGTACAGTAATGCAGGACTTCTTC
ATCGACCTGCGGCTACCCCTACTCTGTTGTTTCAAACGAGCAGGTGGAAATCCGAGCCGTCTCTACAATTACCGG
CAGAACCAAGAGCTCAAGGTGAGGTGGAATACTCCACAATCCAGCCTTCTGCAGCCTGGCCACCACCAAGAGG
CGTCACCAGCAGACCGTAACCATCCCCCAAGTCTCGTTGTCCGTTCATATGTATCGTGCCGCTAAAGACC
GGCCTGCAGGAAGTGAAGTCAAGGCTGTGTCTACCATCATTTTCATCAGTGACGGTGTGAGGAAGTCCCTGAAG
GTCGTGCCGGAAGGAATCAGAATGAACAAAACCTGTGGCTGTTGCAACCTGGATCCAGAACGCTGGGCCGTGAA
GGAGTGCAGAAAGAGGACATCCACCTGCAGACCTCAGTGACCAAGTCCCGACACCGAGTCTGAGACCAGAATT
CTCCTGCAAGGGACCCAGTGGCCAGATGACAGAGGATGCCGTGACGCGGAACGGCTGAAGCACCTCATTGTG
ACCCCTCGGGCTGCGGGGAACAGAACATGATCGGCATGACGCCACGGTCATCGCTGTGATTACCTGGATGAA
ACGGAGCAGTGGGAGAAGTTCGGCCTAGAGAAGCGGCGAGGGGGCTTGAGGCTCATCAAGAAGGGGTACACCCAG
CAGCTGGCCTTCAGACAACCCAGCTCTGCCCTTTCGGCCCTTCGTGAAACGGGACCCAGCACCTGGCTGACCGCC
TACGTGGTCAAGGTCTTCTCTCTGGCTGTCAACCTCATCGCCATCGACTCCCAAGTCTCTCGGGGCTGTAA
TGGCTGATCCTGGAGAAGCAGAAGCCCGACGGGGTCTTCCAGGAGGATGCGCCCGTGATACACCAAGAAATGATT
GGTGGATTACGGAACAACAACGAGAAAGACATGGCCCTCACGGCCTTTGTTCTCATCTCGCTGCAGGAGGCTAAA
GATATTTGCGAGGAGCAGGTCAACAGCCTGCCAGGCAGCATCACTAAAGCAGGAGACTTCTTGAAGCCAACCTAC

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FIGURE 5205B

ATGAACCTACAGAGATCCTACACTGTGGCCATTGCTGGCTATGCTCTGGCCCAGATGGGCAGGCTGAAGGGGCCT
CTTCTTAACAAATTTCTGACCACAGCCAAAGATAAGAACCGCTGGGAGGACCCTGGTAAGCAGCTCTACAACGTG
GAGGCCACATCCTATGCCCTCTTGGCCCTACTGCAGCTAAAAGACTTTGACTTTGTGCCTCCCGTCGTGCGTTGG
CTCAATGAACAGAGATACTACGGTGGTGGCTATGGCTCTACCCAGGCCACCTTCATGGTGTTCGAAGCCTTGGCT
CAATACCAAAGGACGCCCCCTGACCACCAGGAAGTGAACCTTGATGTGTCCCTCCAAGTGGCCAGCCGAGCTCC
AAGATCACCCACCGTATCCACTGGGAATCTGCCAGCCTCCTGCGATCAGAAGAGACCAAGGAAAATGAGGGTTTC
ACAGTCACAGCTGAAGGAAAAGGCCAAGGCACCTTGTGCGTGGTGACAATGTACCATGCTAAGGCCAAAGATCAA
CTCACCTGTAATAAATTGACCTCAAGGTCACCATAAAACCAGCACCGGAAACAGAAAAGAGGCCTCAGGATGCC
AAGAACACTATGATCCTTGAGATCTGTACCAGGTACCGGGGAGACCAGGATGCCACTATGTCTATATTGGACATA
TCCATGATGACTGGCTTTGCTCCAGACACAGATGACCTGAAGCAGCTGGCCAATGGTGTGACAGATACATCTCC
AAGTATGAGCTGGACAAAGCCTTCTCCGATAGGAACACCCCTCATCATCTACCTGGACAAGGTCTCACACTCTGAG
GATGACTGTCTAGCTTTCAAAGTTCACCAATACTTTAATGTAGAGCTTATCCAGCCTGGAGCAGTCAAGGTCTAC
GCCTATTACAACCTGGAGGAAAGCTGTACCCGGTTCTACCATCCGAAAAGGAGGATGGAAAGCTGAACAAGCTC
TGCCGTGATGAAGTGTGCCGCTGTGCTGAGGAGAATTGCTTCATACAAAAGTCGGATGACAAGGTCAACCCTGGAA
GAACGGCTGGACAAGGCCTGTGAGCCAGGAGTGGACTATGTGTACAAGACCCGACTGGTCAAGGTTGAGCTGTCC
AATGACTTTGACGAGTACATCATGGCCATTGAGCAGACCATCAAGTCAGGCTCGGATGAGGTGCAGGTTGGACAG
CAGCGCACGTTTCATCAGCCCCATCAAGTGCAGAGAAGCCCTGAAGCTGGAGGAGAAGAACTACCTCATGTGG
GGTCTCTCCTCCGATTTCTGGGGAGAGAAGCCCAACCTCAGCTACATCATCGGGAAGGACACTGGGTGGAGCAC
TGGCCCCGAGGAGGACGAATGCCAAGACGAAGAGAACCAGAAACAATGCCAGGACCTCGGCGCCTTCACCGAGAGC
ATGGTTGTCTTTGGGTGCCCCAACTGACCACACCCCCATTCC

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FIGURE 5206

GGCCGCGGTGGTGGCTGCGGCGGCGGCGGCGGGAGCAGCATGGATTGGGGCACTGAGCTGTGGGATCAGTTCCGAG
GTGCTCGAGCGCCACACGCAGTGGGGGCTGGACCTGTTGGACAGATATGTAAAGTTCGTGAAAGAACGCACCGAA
GTGGAACAGGCTTACGCCAAACAACCTGCGGAGCCTGGTGAAAAAATATCTGCCCAAGAGACCTGCCAAGGATGAT
CCTGAGTCCAAATTCAGCCAGCAACAGTCCTTCGTACAGATTCTCCAGGAGGTGAATGACTTTGCAGGCCAGCGG
GAGCTGGTGGCTGAGAACCTCAGTGTCCGTGTATGTCTTGAGCTGACCAAGTACTCACAAGAGATGAAACAGGAG
AGGAAGATGCACTTCCAAGAAGGGCGGCGGGCCAGCAGCAGCTGGAAAATGGCTTTAAACAGCTGGAGAATAGT
AAGCGTAAATTTGAGCGGGACTGCCGGGAGGCAGAGAAGGCAGCCCAGACTGCTGAACGGCTAGACCAGGATATC
AACGCCACCAAGGCTGATGTGGAGAAGGCCAAGCAGCAAGCCACCTTCGGAGTCACATGGCCGAAGAAAGCAAA
AACGAATATGCGGCTCAACTGCAGCGCTTCAACCGAGACCAAGCCCACTTCTATTTTTTACAGATGCCCCAGATA
TTCGATAAGCTCCAAGACATGGATGAACGCAGGGCCACCCGCTGGGTGCCGGGTATGGGCTCCTGTCGGAGGCC
GAGCTGGAGGTGGTGCCCATATAGCCAAGTGCTTGGAGGGCATGAAGGTGGCTGCAAATGCTGTGGATCCCAAG
AACGACTCCCACGTCTTATAGAGCTGCACAAGTCAGGTTTTGCCCGCCGGGCGACGTGGAATTCGAGGACTTC
AGCCAGCCCATGAACCGTGCACCTCCGACAGCAGTCTGGGCACCCCTCGGATGGACGGCCTGAACTCCGAGGC
CCGGGTGCGAGCCGCACCAAGCGCTGGCCTTTTGGCAAGAAGAACAAGACAGTGGTGACCGAGGATTTTAGCCAC
TTGCCCCCAGAGCAGCAGCGAAAACGGCTTCAACAGCAGTTGGAAGAACGCAGTCGTGAACCTCAGAAGGAGGTT
GACCAGAGGGAAGCCCTAAAGAAAATGAAGGATGTCTATGAGAAGACACCTCAGATGGGGGACCCGCCAGCTTG
GAGCCCCAGATCGCTGAAACCTGAGCAACATTGAACGGCTGAAATTGGAAGTGCAGAAGTATGAGGCGTGGCTG
GCAGAAGCTGAAAGTCGAGTCCTTAGCAACCGGGAGACAGCCTGAGCCGGCACGCCCCGGCCTCCCGACCCCCC
GCTAGCGCCCCGCCAGACAGCAGCAGCAACAGCGCATCACAGGACACCAAGGAGAGCTCTGAAGAGCCTCCCTCA
GAAGAGAGCCAGGACACCCCCATTTACACGGAGTTTGATGAGGATTTGAGGAGGAACCCACATCCCCCATAGGT
CACTGTGTGGCCATCTACCACCTTTGAAGGTCCAGCGAGGGCACTATCTCTATGGCCGAGGGTGAAGACCTCAGT
CTTATGGAAGAAGACAAAGGGGACGGCTGGACCCGGGTGAGGCGGAAAGAGGGAGGCGAGGGCTACGTGCCACC
TCCTACCTCCGAGTCACGCTCAATTGAACCCCTGCCAGAGACGGGAAGAGGGGGCTGTGCGCTGCTGCTTCTGGG
CCACGGGGAGCCCCAGGACCTATGCACCTTTATTTCTGACCCCGTGGCTTCGGCTGAGACCTGTGTAACCTGCTGC
CCCCCACCACCCCAACCCAGTCCTACCTGTACACCGGACGGACCCGCTGTGCTTCTACCATCGTTCCACCATT
GATGTACATACTCATGTTTTACATCTTTTCTTCTGCGCTCGGCTCCGGCCATTTTGTTTTATACAAAATGGGT
TTTTTTTTTTCTTTAATATATTTCAAGAGATTTTTTTTTTTTTTTTTTT

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FIGURE 5207

MDWGTELWDQFEVLERHTQWGLDLLDRYVKFVKERTEVEQAYAKQLRSLVKKYLPKRPAKDDPESKFSQQQSFVQ
ILQEVNDFAGQRELVAENLSVRVCLELTKEYSQEMKQERKMHFQEGRRQQQLENGFKQLENSKRKFERDCREAEK
AAQTAERLDQDINATKADVEKAKQQAHLRSHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRAT
RLGAGYGLLSEAELEVVP IIAKCLEGMKVAANAVDPKNDSHVLIELHKSGFARPGDVEFEDFSQPMNRAPSDSSL
GTPSDGRPELRGPGRSRTKRWPFGKKNKT VVTEDFSHLPPEQQRKRLQQQLEERSRELQKEVDQREALKKMKDVY
EKTPQMGPASLEPQIAETLSNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHARPPDPPASAPPDSSSNSAS
QDTKESSEPPSEESQDTPIYTEFDEDFEEPTSPIGHCVAIYHFEGSSEGTISMAEGEDLSLMEEDKGDGWTRV
RRKEGEGGYVPTSYLRVTLN

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FIGURE 5208

CGGGGGTGACAGCAGCCCCGAGCGCGGAGCCTCAGCTTCCGCCTGGACCCAGCCTCGTGGGAGCCCCGCGGGTC
CTGCCCAGATGTGGAAGACTGAGGCCTGTTGAAAGTGCAGAGCTCAGCCCTGGCACCCCTCTGTTCCCAAGAGCTC
CATGCAGGTGCCACAGGATGGAGAAGACCTTGCTGGCCAACCCTGGTACCACGGCCTCCTGTCCCGCCAGAAGGC
TGAAGCTCTTCTTCAGCAAGATGGCGACTTCTGTTTCGCGCCTCTGGGTCCCGTGGGGGCAACCCCGTGATCTC
CTGCCGCTGGCGGGGCTCAGCCCTCCATTTTGGGTGTTCCGTGTGGCCCTGCGTCCCGGCCAGGCCGACCCAC
AGCCCTCTTTCAACTGGAGGATGAGCAATTCCCAGCATACCGGCTCTGGTTCACAGTTATATGACAGGCAGGCG
CCCCTGTCCCAGGCCACAGGGGCTGTGGTCTCCAGGCCTGTGACTTGGCAGGGGCTCTGCGACGCAGCTTTAG
CGAGGACACCCTGATGGATGGCCCAGCTCGGATAGAGCCTCTCAGGGCAAGGAAGTGGAGCAACAGTCAGCCTGC
AGATTGGCACATATGGGGCGGTCAAGAGAAGACCCGCTGGGATGGAAGCCTCCACCATGCCATATCTGCCTT
GCCCCGAACGAGCAGTGACCCGGTGTGCTGAAGGCCCTGCTCCCTGGGAAGTGTGCGGACAGTCTCAGGGC
CTCCGATGGGCAGCTTCAAGCCAAGGCACCAACGAAGCCCCCGGACACCTCCTTCGAAGTGCCTGATGCCTC
TGAACGTCCCCGACGTACTGCGAGCTGGTGCCCCGAGTGCCAGTGTCCAGGGAACATCCCCGAGCCAAAGCTG
CCCAGAGCCAGAGGCCCATGGTGGGAGGCCGAGGAGGATGAGGAGGAAGAGAATAGATGTTTTACAAGACCACA
GGCTGAGATCTCTTCTGCCCCATGATGCCCCCTCCTGCCGTGCTGGGCCCCCAGAATCGGCCCTTGAACCCCA
AGTCTGCTACCCCTCCGTGGCCTGTTCTGGAGCACCATCCTGGGAGCACCGCCCTTCACCTGCTATTGGTAGA
CTGCCAGGCCACAGGCCTCCTGGGAGTGACCAGAGATCAGCGGGCAACATGGGAGTCTCATCTGGCCTGGAGCT
GCTACTCTTCCCCATGGACACCCTTGAGGTTGGAAGTGTGAGAGGCATCAGACACTGGCGCTGGCCGGGGC
GCTGGCGGTGCTGGGCTGCTCGGGGCCGCTGGAGGAGCGCGCAGCCGCACTGAGGGGACTGGTAGAGCTGGCGCT
GGCGCTGCGGCCAGGGGCGCGGGGGACCTGCCCGGGCTGGCTGCAGTCATGGGCGCCCTGCTCATGCCCCAGGT
GTCCCGGTTGGAGCACACGTGGCGCCAGCTCCGAAGGAGCCACACGGAGGCTGCGCTGGCCCTTTGAGCAGGAGCT
GAAGCCGCTGATGCGGGCTCTGGATGAGGGCGCTGGACCCTGCGACCCCGGCGAGGTGGCGCTGCCGCACGTGGC
ACCCATGGTTCGCCTACTGGAGGGCGAGGAAGTCGCGGGGCCGCTGGACGAGAGCTGTGAGCGGCTGTTGCGCAC
CCTGCACGGGGCGCGTCACATGGTCCGGGACGCACCCAAATTCCGCAAGGTGGCAGCCCAGCGCCTGCGAGGATT
CCGGCCTAACCCGGAGCTGAGGGAGGCCCTGACCACCGGCTTCGTGCGGAGGCTGCTCTGGGGTAGCCGGGGCGC
GGGAGCTCCGCGCGCTGAACGCTTTGAGAAATTCCAGCGCTCCTCGGCGTCTGTGCGAGCGCCTGGAGCCTGA
CCGCT**AG**AGCGCAGACACCCTTCTTCACACCCGGGACCCCCAGGTTTTTGCGAACCCCAAGAGACCAAAGGA
GTCGTCCCAGGCTCCTCGCGCCTCAGGTGGAATCCTGCCCTGTGCCTCACAGAAGAGGTGGGGACCGCAGTCAGG
GTCACCTGGACCATGGTGAACATGTGACCTGCAGATCTGGCATCAGAGGCCAGAGTTCAAATGTGACTCCACCTC
TTAAAAGCCGTGATTCTAGCAGTTGACTTCACCTCTGTGTGCGCCTTTAACAAAATCATAGCCATACAGCAGCT
CAGGCCTGTAATCTCAGCACTTTGGGAGGCCGAGGCGGAAGGAAGGCTTGAGGCCAGGAGTTCAAGACCAGCCAG
GGCAACATGGTGAGACCTCATCTCTACAAAACTGAAAAATAAAAACTTTTAAAAAATGTAAAAA

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FIGURE 5209

MQVPQDGEDLAGQPWYHGLLSRQKAEALLQQDGDFLVRASGSRGGNPVISCWRWGSALHFEVFRVALRPRPGRPT
ALFQLEDEQFPSIPALVHSYMTGRRPLSQATGAVVSRPVTWQGPLRRSFSEDTLMDGPARIEPLRARKWSNSQPA
DLAHMGRSREDPAGMEASTMPI SALPRTSSDPVLLKAPAPLGTVADSLRASDGQLQAKAPTKPPRTPSFELPDAS
ERPPTYCELVPRVPSVQGTSPSQSCPEPEAPWWEAEDEEEENRCFTRPQAEISFCPHDAPSCLLGPNRPLEPQ
VLHTLRGLFLEHHPGSTALHLLLVDQCQTGLLGVTDRDQRGNMGVSSGLELLTLPHGHHLRLELLERHQTALAGA
LAVLGCSGPLEERAAALRGLVELALALRPGAAGDLPGLAAVMGALLMPQVSRLEHTWRQLRRSHTEAALAFEQEL
KPLMRALDEGAGPCDPGEVALPHVAPMVRLLLEGEEVAGPLDESCERLLRTLHGARMVRDAPKFRKVAAQRLRGF
RPNPELREALTTGFVRLLWGSRGAGAPRAERFEKFQVRLGVLSQRLEPDR

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FIGURE 5210

AGGGAAGACACGCGTGACCCGGAAGGTCTTCCCGCCACACTCCAGAGCGGATGTGAGGGGGCGCCGATGGCGGAGG
GAACGGCGGAGGCTCCTCTAGAGAATGGTGGTGGTGGCGACTCGGGAGCCGGAGCTTTGGAACGAGGAGTGGCGC
CCATTAAGCGTCAATACCTCACCACCAAGGAGCAGTTTCACCAATTCCTGGAAGCCAAAGGGCAGGAGAAAGACTT
GCCGGGAAACCGAGCTGGACATCCGTGGCAAACCTTTACCTGGCCCCCTCACCACGTGTGGGAACCTGCCCTTCC
GACGGATCTGCAAGCGCTTCGGGGCGGATGTGACATGTGGAGAGATGGCCGTCTGCACCAACCTGCTGCAGGGCC
AGATGTCCGAGTGGGCCCTACTCAAACGCCACCAAGTGTGAGGACATCTTTGGCGTCCAGCTGGAGGGCGCCTTCC
CCGACACCATGACCAAGTGTGCCGAGCTGCTGAGCCGCACCGTGGAGGTGGACTTTGTGGACATCAACGTCCGGCT
GCCCCATCGACCTCGTGTACAAGAAGGGTGGGGGCTGTGCCCTCATGAATCGCTCCACCAAGTTCCAGCAGATCG
TCCGTGGCATGAACCAGGTGCTGGATGTGCCGCTGACTGTGAAGATCCGCACAGGCGTCCAGGAGCGTGTGAACC
TGGCGCACCGCCTGCTGCCCCGAGCTGCCGGGACTGGGGCGTGGCACTCGTCACGCTCCACGGCCGCTCTCGGGAGC
AGCGCTACACCAAGCTAGCCGACTGGCAGTACATCGAGGAGTGCCTGCAGGCCGCCAGCCCCATGCCCTGTTTCG
GAAATGGGGACATCTTGTCAATTTGAGGATGCCAACCGCGCCATGCAGACTGGTGTACCCGGGATCATGATTGCCC
GTGGCGCCCTGCTCAAGCCGTGGCTCTTCACGGAGATCAAGGAGCAGCGGCACTGGGACATCTCGTCGTCCGAGC
GCCTGGACATCCTGCGGGACTTCACCAACTACGGCCTGGAGCACTGGGGCTCGGACACGCAGGGCGTGGAGAAGA
CCCGGCGCTTTCTGCTCGAGTGGCTGTCTTCTGTGCCGGTACGTGCCCGTGGGGCTGCTGGAGCGGCTCCCAC
AGAGGATCAACGAGCGGCCGCCCTACTACCTGGGCCGCGACTACCTGGAGACGCTGATGGCCAGCCAGAAGGCAG
CCGACTGGATCCGCATCAGCGAGATGCTCCTTGGGCCAGTGGCCCCAGCTTCGCCTTCTTGCCGAAGCACAAGG
CCAACGCGTACAAGTAGCCTCAGGCTTTCCAGGGGCACCTGGGGCGAGGAGAGTACAATAAATTTTATTCTTT
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FIGURE 5211

MAEGTAEAPLENGGGGDSGAGALERGVAP IKRQYLTTKEQFHQFLEAKGQEKTCRETEVGDPAGNELAEPEAKRI
RLEDGQTADGQTEEAAPGEQLQTQKRARGQNKGRPHVKPTNYDKNRLCPSLIQESAACFFGDRCRFLHDVGRY
LETKPADLGPRCVLFETFGRCPYGVTCRFAGAHLRPEGQNLVQEELAARGTQPPSIRNGLDKALQQQLRKREVRF
ERAEQALRRFSQGPTPAAAVPEGTAAGAPRQENCGAQQVPAGPGTSTPPSSPVRTCGLTDEDVVRLRPCEKKR
LDIRGKLYLAPLTTCGNLRFRRICKRFGADVTCGEMAVCTNLLQGQMSEWALLKRHQCEDIFGVQLEGAFPDMT
KCAELLSRTVEVDFVDINVGCPIDLVIKGGGGCALMNRSTKFQQIVRGMNQVLDVPLTVKIRTGVQERVNLAHRL
LPELRDWGVALVTLHGRSREQRYTKLADWQYIEECVQAASPMPLFGNGDILSFEDANRAMQTGVTGIMIARGALL
KPWLFTEIKEQRHWDISSERLDILRDFTNYGLEHWGSDTQGVKTRRFLLEWLSFLCRYVPVGLLERLPQRINE
RPPYYLGRDYLETLMASQKAADWIRISEMLLGVPVPSFAFLPKHKANAYK

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FIGURE 5212

CGGGTTTTCCAATCTCTGTGTAGCTAGCAGTTCTCTTCGTGTTAGTGTGGCAGCCGTGCCAGTTCACATTGTG
ATTGCTTTATTTCCCTGGTAATTAAACCTTGTGCCATTCTATTCCCTGTTAAATCCGTAGAAAATGAGAAAATACT
CGACATTTTGGGGGAACTTGTAAATCTGAGCCAGTAAAAGAAGAAAGTTCCGAGCTGGAGCAGCCATTTGCACA
GGACACAAGTAGCGTGGGGCCAGACAGAAAGCTTGGCGAGGAAGAGGACCTATTTGACAGCGCCCATCCGGAAGA
GGGTGATTTAGATTTGGCCAGCGAGTCAACAGCACACGCTCAGTCGAGCAAGGCAGACAGCCTGTTAGCGGTAGT
GAAAAGGGAGCCCGCGGAGCAGCCAGGCGATGGCGAGAGGACGGACTGTGAGCCTGTAGGGCTAGAGCCGGCAGT
TGAGCAGAGTAGTGC GGCCCTCCGAGCTCGCGGAGGCTCTAGCGAGGAGCTCGCAGAAGCACCCACGGAAGCCCC
AAGCCCAGAAGCCAGAGATAGCAAAGAAGACGGGAGGAAGTTTGATTTTGACGCTTGTAATGAAGTCCCTCCGGC
TCCTAAAGAGTCCCTCAACCAGTGAGGGCGCTGATCAGAAAATGAGGTTTGT TTTTCTCAGTTTTAGACCAGACG
CTATCTCCTTTTTCATTGGTCATGTAATGACACACATAAGCTGTTTTTTCTGCAATTGGCCAGCCAGACTGACGA
AATTGTAGTTTTGCTTCTAAAGAATGTTTCGTTTCTCTTTGTGTGTTTTTAATGGGTGATTCAATTCCTTTTCTT
TTTCTCAACCTACCATGGTTGTGTTCTTAAATTCTTCTAATTACCTTTAGCCCAGCAGAAATTAATTAACCTCTG
TGGGTCTGAAATCTTATGGTTAGGTGAGATTTTCAATACAAGTTTGTGCGGGGTATCATT TTTTTCAGAACTAAAT
TCGGGTAGGTATGCAACCTCAGCACGAATTTTATGGTTTTGAGTTTGT TTTTCTCCATGCTGCTTCTTGTGGAGT
GACATTGTCTTTTGTCTCTAGTTCTCCCGAAGATGACTCGGATACAAAAGGCTTTCCAAAGAGGAAAAGGGTCG
CAGCAGTTGTGGTAGAAATTTCTGGGTTAGTGGACTCTCTTCTACAACCAGAGCTACAGATTTGAAGAACTTTT
CAGCAAATATGGGAAGGTGGTGGGCGCCAAGGTTGTGACAAATGCCCGGAGTCCTGGAGCTCGCTGTTACGGTTT
TGTCACGATGTCCACAGCAGAAGAGGCCACAAAATGCATTAACCACCTGCACAAGACGGAGCTCCACGGAAGAT
GATCTCCGTGGAGAAAGCCAAAATGAACCTGTGGGAAAGAAAACCTCTGACAAAAGAGACAGTGACGGGAAAAA
GGAGAAGTCGAGCAACAGTGACAGATCTACAAACCTTAAGAGGGATGATAAATGTGACAGAAAAGATGATGCTAA
GAAGGGTGACGACGGAAGTGGAGAAAAGAGTAAGGACCAAGATGATCAGAAACCTGGCCCCCTCAGAGCGATCTCG
AGCCACAAAGTCAGGAAGTCGAGGGACCGAACGGACTGTAGTAATGGATAAATCCAAAGGGGTGCCTGTGATTAG
TGTA AAAACGTCCGGGTCCAAAGAGAGAGCTTCCAAAAGCCAGGATCGCAAATCAGCCAGCAGAGAGAAGCGGTC
CGTCGTGTCTTTGATAAGGTCAAGGAGCCTCGGAAGTCAAGAGACTCAGAGTCCCATAG

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FIGURE 5213

CGAACTCCGCCCCCTCTTCTCCGCGTAGGCCAGCTCCCTGAAGCGGCTGTTTCGAGCCACGCGCCCATCGGGTA
CCGAGGCACGCGCCGGGCGTCACGTGCGTTTCGCGGCGAGCGGAAATGACGCGAGTTGTGTGAGCCGCCAGTATG
GCCGGGCTATGGCGGCGAGCACTGGCTACGTGCGACTGTGGGGAGCGGCGCGGTGCTGGGTGCTGCGGCGGCCGA
TGCTGGCCGCCGCCGGGGGGCGGGTTCCTACTGCAGCAGGAGCGTGGTTGCTCCGAGGCCAGCGACCTGCGACG
CCTCTCCTCCTTGGGCACTGTGGGGCCGAGGCCCGGCAATTGGGGGCCAATGGCGGGGGTTTTGGGAAGCGAGCA
GCCGCGGCGGAGGCGCATTCTCGGGGGGCGAGGACGCTCCGAGGGCGGCGCGGAGGAAGGAGCCGGCGGCGCGG
GGGGCAGCGCGGGCGCCGGGGGAAGGCCCGGTCTATAACGGCGCTCACGCCCATGACGATCCCGATGTGTTTCCGC
ACCTGCCGCTCATCGCCATCACCCGCAACCCGGTGTTCGCGCGCTTTATCAAGATTATCGAGGTTAAAAATAAGA
AGTTGGTTGAGCTGCTGAGAAGGAAAGTTTCGTCTCGCCAGCCTTATGTGCGCGTCTTTCTAAAGAGAGATGACA
GCAATGAGTCGGATGTGGTCGAGAGCCTGGATGAAATCTACCACACGGGGACGTTTGCCAGATCCATGAGATGC
AGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAGCTGGAGGTGG
AGCCCGAGGAGCCGGAGGCGGAGAACAAGCACAAAGCCCCGAGGAAGTCAAAGCGGGGCAAGAAGGAGGCGGAGG
ACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAGCTCCCGGTGAGGTGCTCATGG
TGGAGGTAGAGAAGCTTGTCCACGAGGACTTCAGGTACGAGGAGGTTGAAAGCCCTGACTGCAGAGATCGTGA
AGACCATCCGGGACATCATTGCCTTGAACCTCTCTACAGGGAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGC
GGGTGGTGGACAACCCCATCTACCTGAGCGACATGGGCGCCGCGCTCACCGGGGCGGAGTCCCATGAGCTGCAGG
ACGTCTGGAAGAGACCAATGTGGAGGAGAAGATCAAGCAGACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAA
AGATCATCAAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTTCCGGGAGCGCCTGA
AGGAGCTCGTGGTCCCCAAGCACGTATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGACAACC
ACTCCTCGGAGTTCAATGTCACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAGTACAGCAACG
AGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAGGACGTCAAGAAACGCA
TCCTGGAGTTTATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATCCTCTGCTTCTATGGCCCCCTG
GCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCCGCGCCCTGAACCGAGAGTACTTCCGCTTACGCGTCGGGG
GCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACCTACGTGGGCGCCATGCCCGGGAAGATCATCCAGT
GTTTGAAGAAGACCAAGACGGAGAACCCCTGATCCTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGG
GGGACCCGTCGTCGGCACTGCTGGAGCTGCTGGACCCAGAGCAGAATGCCAACTTCTTGGAACCTACCTGGACG
TGCCCGTGGACTTGTCCAAGGTGCTGTTTCATCTGCACGGCCAACGTACGGACACCATCCCCGAGCCGCTGCGAG
ACCGTATGGAGATGATCAACGTGTCGGGCTACGTGGCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGC
CCCAGGCTCGCGCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCA
AGCAGTACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTTACGGAAATCGGCCTACA
AGATTGTCAGCGGCGAGGCCGAGTCCGTGGAGGTGACGCCCGAGAACCTGCAGGACTTCGTGGGGAAGCCCGTGT
TCACCGTGGAGCGCATGTATGACGTGACACCGCCGCGTGGTCATGGGGCTGGCCTGGACCGCAATGGGAGGCT
CCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGTGACAAGGATGGCAGCCTGG
AGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCCTACACCTTCGCCAGAGCCTTCCTCA
TGCAGCACGCCCCCGCCAATGACTACCTGGTGACCTCACACATCCACCTGCATGTGCCGAGGGCGCCACCCCCA
AGGACGGCCCCAAGCGCAGGCTGCACCATCGTCACGGCCCTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGA
ATCTGGCCATGACTGGCGAAGTCTCCCTCACGGGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTG
CGGCCAAGCGCGCAGGGGTGACGTGCATCGTCCGAGCCGAGACAAGAAGGACTTCTACGACCTGGCAGCCT
TCATCACCGAGGGCCTGGAGGTGACCTTCGTGGAACTACCGGGAGATCTTCGACATCGCCTTCCCGACGAGC
AGGCAGAGGCGCTGGCCGTGGAACGGTGACGGCCACCCGGGACTGCAGGCGGCGGATGTCAGGCCCTGTCTGGG
CCAGAACTGAGCGCTGTGGGGAGCGCGCCCGGACCTGGCAGTGGAGCCACCGAGCGAGCTCGGTCCAGTGAC
CCAGATCCCAGGGACCTCAGTCGGCTTAATCAGAGTGTGGCATAGAAGCTATTTAATGATTAAAGTCATTTGCAG
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FIGURE 5214

GGAGGGCTTAAGGAAGTAAAATGGCGGACCTGGCGAACGAAGAAAAGCCTGCCATTGCTCCGCCCGTCTTTGTGT
TTCAGAAGGATAAAGGACAAAAGTCCCCTGCAGAGCAAAAAAATTGTCGGATTTCGGGAGAGGAGCCTCGGGGGG
AGGCTGAGGCCCCCACCATGGCACGGGTACCCCGAGTCAGCTGGCGAGCATGCCCTAGAACCTCCTGCCCTG
CTGGCGCCTCAGCCAGCACTCCTCCGCCTCCCGCTCCTGAAGCCCAGCTTCCTCCTTTTCCGCGAGAACTGGCAG
GGAGGTGAGCTGGCGGCTCCAGTCTGAAGGCGGAGAAGATTCTGACAGAGAAGATGGAAATTACTGCCCTCCTG
TCAAGCGAGAAAGAATCCTCTTTAACCAGTTCACCACCTCAGTCAGAGGAAAGGAGCAGTGGCTTCCGGT
TGAAGCCACCAACGCTGATCCACGGCCAAGCCCCAGCGCAGGTCTGCCAAGCCAGAAGCCCAAGGAGCAGCAGC
GGAGCGTGCTTCGCCCGGCAGTGTTACAAGCTCCGCAGCCAAAGGCGCTGTCCAGACTGTCCCAAGCAGTGGCA
CCAACGGGGTCAGCCTCCCAGCAGACTGCACGGGGGCAGTGCCCGCAGCATCCCCTGACACTGCTGCATGGAGAA
GTCCTTCCGAAGCTGCCGATGAGGAGAAAGAGCCCCAGAAAAATGAGTCCAGCAATGCCTCTGAAGAGGAAGCCT
GTGAGAAAAAAGACCCCGCCACACAGCAAGCCTTTGTATTTGGGCAGAACTTGAGGGACAGAGTTAAGCTGATAA
ATGAGAGCGTGGACGAAGCCGACATGGAGAATGCTGGACACCCAGCGCAGACACGCCAACCGCAACGAATATT
TCCTCCAGTATATCAGTTCAGTTTAGAGAACTCAACCAATAGTGCCGACGCCTCCAGCAACAAATTTGTATTTG
GCCAGAACATGAGCGAGCGAGTTTGTAGCCCCCAAAATTAAACGAGGTCAGTTCAGATGCCAACAGGGAAAATG
CAGCTGCCGAGTCAGGGTCTGAGTCTCGTCCAGGAGGCCACCCCTGAGAAAGGGTCCCTGGCTGAGTCGGCAG
CCGCCTACACCAAGGCAACAGCGCGGAAGTGTGTTGTGGAAAAAGTGGAAGTCATACCGGGGAGGAGCGGAGA
GCAATGTGTTACAGATGCAGTGAAGCTGTTTGTCTTTGACAAGACCTCACAGTCTGGGTGGAGAGAGGCCGGG
GGCTGCTCAGACTCAATGACATGGCGTCCACCGATGACGGCACACTACAGTCCCGACTAGTGATGCGGACCCAGG
GGAGCCTGCGACTGATCCTCAACACCAAGCTGTGGGCCAGATGCAGATCGACAAGGCCAGCGAGAAGAGCATT
GCATCACAGCCATGGACACCGAGGACCAGGGCGTGAAAGTCTTCTGATCTCGGCCAGCTCCAAGGACACAGGTC
AGTTGTATGCAGCCCTGCACACCGCATCTGGCCCTGCGCAGCCGCGTGAGCAGGAGCAGGAGGCCAAGATGC
CCGCGCCTGAGCCTGGGGCAGCCCCATCCAACGAGGAGGACGACAGCGACGATGACGATGTCTGGCTCCTTCAG
GGGCCACCGCAGCTGGTGTGGTGACGAAGGGGACGGGCAGACGACCGGGAGCACATAGCGGCCGGGAGCCCGGC
TGCACACCAGGCTGCTGCTTTGTCCGTCTATCCACCCGCCACCCGCCCCACCCACCCGGCAGCGTCCAGGTGC
GGGGCCGGGAACCACACACCCCACTGGGCCGGCCACAGTCTGGACCCGCACGTCTGTTCAAAAGCAGACTCGGG
AACTGCCTGAATGTGGTTTGGGACACGAGACCTCATCATATTGATGAGCGAAACAAACAAGAACATTTCTCCCTC
CCCTCCTTTGAATTGAAATGGCACATTAAGACTTGTACGGCTTCTCACTGGGACTGGAGACCTCGTTTCTTTCAC
CCCGCTGTGCGCAGCCTCTGGGTCCAGCCAGAGCCCTGGCTTCTCCGCCACCCACACCTTCCACCTGCTG
TGGGGCCCTGCCTTTGTGGGGAGCAGCCAGCCCTTGCCCTGCCAGGGCTCCCCAACTATAGGCCTGGGACCC
CCGCCAGCTTGGGGGGCTGCTCGTACGAGTGTAGACACTGGGCCCCATTGGACGTGCTGTAACTACTATCTTCA
TTTCCCACTTCCCTCTCTGATTGGGGGTGTATATTTTACATCTTTTTTCTTTTTTATTTTGAAGGCTTTGTTT
TGTTTCTTAGGTTAAGATGCTCTCGAGCGTTGAGCAGGCACAGCTCTGTGAGGTCCCTGTCCCCACCTGTGG
TTCGGCCTCGAGGTTGGGGGACTACTTGTTCACCCACAGGTTCTCCAGGCCAAGTCATGGGGTGATGAGG
AGTTGGGGCCCTGCTGTCTAGGCCTGGAGAGTGCCTGTCTGGGAAAAGGTCACTGGACCTGGAAGGGTCCCCA
GGTCCCCCTGACTCCCGTCTCCATCTGTACGTGGTTACCATCATCAGGCACACAGGCGAAACTGCTTCCCGCT
GTTGGCCATCCCTTCCCCAGCCACAGGTGTCCCTGCCCCAGGACAGTCCAGGGCCAGGGGCTTCTGTGAGAGGC
AGAGGGGGACCCCTACCAAATCTTGGTGGAAGAGCCAGGGGCTGGTCCCAGAACAGGCAGTCTCACAAGCACGC
AGCACACTGGAGTGGACGCTGTGCCACCCGAGCCTGGAGCATGGCCAAGAGCCAGCTTGCACCACCCACCTGG
GAGGCCGAGGAGGAGGTCCCTGGGCACAGGGCCTCTTTGGGACTTCAGAGGAAATCTCCAGTCCCACTCTCGG
AGGGTTAAGAGAAGGCCTCCTGCAGCTGTGCCGTCCACCTCTAGGTCGCCAGAGCCCTGCCCCAGCCCCAG
CAAGCCTGAGCCCCGGGAAGAACCAGAGGCCCTCCCGAGAGACCCAGTCACACGTCTCTGCTTTAAGCCTTAGCCA
GCTAGTGACGAGTACAACGAGATAACGCCCATGTGTTTTGGAACATTTATGTAAGATTGTATATGAAATGTATT
TGGAACACTACATTAACTTTTAACTAAAAA

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FIGURE 5215

MADLANEEKPAIAPPVVFQKDKGQKSPAEQKNLSDSGEPRGEAEAPHHGTGHPESAGEHALEPPAPAGASAST
PPPPAPEAQLPPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQFPPSQSEERSSSGFRCLKPPTLI
HGQAPSAGLPSQKPKEQQRSVLRPAVLQAPQPKALSQTVPSGTNGVSLPADCTGAVPAASPDAAWRSPSEAAD
EEKEPQKNESNASEEEACEKKDPATQQAFFVGQNLDRVKLINESVDEADMENAGHPADTPTATNYFLQYISS
SLENSTNSADASSNKFFVGQNMSEVLSPPKLNEVSSDANRENAAAESGSESSSQEATPEKGSIAESAAAYTKAT
ARKCLLEKVEVITGEEAESNVLMQCKLFVFDKTSQSWVERGRGLLRNLNDMASTDDGTLQSLVMRTQGSRLRLIL
NTKLWQMIDKASEKSIRITAMDTEDQGVKFLISASSKDTGQLYAALHHRILALRSRVEQEQAEMPAPEPGA
APSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGST

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FIGURE 5216

TGCGCGTGCGCAGGGATAAGAGAGCGGTCTGGACAGCGCGTGGCCGGCGCCGCTGTGGGGACAGCATGAGCGGGCG
GTTGGATGGCGCAGGTTGGAGCGTGGCGAACAGGGGCTCTGGGCCTGGCGCTGCTGCTGCTCGGCCTCGGAC
TAGGCCTGGAGGCCGCCGCGAGCCCGCTTTCCACCCGACCTCTGCCCAGGCCGCGAGGCCCCAGCTCAGGCTCGT
GCCCACCCACCAAGTTCCAGTGCCGCACCAAGTGGCTTATGCGTGCCCTCACCTGGCGCTGCGACAGGGACTTGG
ACTGCAGCGATGGCAGCGATGAGGAGGAGTGCAGGATTGAGCCATGTACCCAGAAAGGGCAATGCCACCGCCCC
CTGGCCTCCCCCTGCCCCTGCACCGGCGTCAGTGACTGCTCTGGGGGAAGTACAAGAACTGCGCAACTGCAGCC
GCCTGGCCTGCCTAGCAGGCGAGCTCCGTTGCACGCTGAGCGATGACTGCATTCCACTCACGTGGCGCTGCGACG
GCCACCCAGACTGTCCCGACTCCAGCGACGAGCTCGGCTGTGGAACCAATGAGATCCTCCCGGAAGGGGATGCCA
CAACCATGGGGCCCCCTGTGACCCTGGAGAGTGTACCTCTCTCAGGAATGCCACAACCATGGGGCCCCCTGTGA
CCCTGGAGAGTGTCCCCCTCTGTGCGGAATGCCACATCCTCCTCTGCCGGAGACCAGTCTGGAAGCCCAACTGCCT
ATGGGGTTATTGCAGCTGCTGCGGTGCTCAGTGCAAGCCTGGTCACCGCCACCCTCCTCCTTTTGTCTGGCTCC
GAGCCCAGGAGCGCCTCCGCCCCTGGGGTTACTGGTGGCCATGAAGGAGTCCCTGCTGCTGTCAGAACAGAAGA
CCTCGCTGCCCTTGAGGACAAGCACTTGCCACCACCGTCACTCAGCCCTGGGCGTAGCCGGACAGGAGGAGAGCAG
TGATGCGGATGGGTACCCGGGCACACCAGCCCTCAGAGACCTGAGCTCTTCTGGCCACGTGGAACCTCGAACCCG
AGCTCCTGCAGAAGTGGCCCTGGAGATTGAGGGTCCCTGGACACTCCCTATGGAGATCCGGGGAGCTAGGATGGG
GAACCTGCCACAGCCAGAACTGAGGGGCTGGCCCCAGGCAGCTCCCAGGGGGTAGAACGGCCCTGTGCTTAAGAC
ACTCCTGCTGCCCCGTCTGAGGGTGGCGATTAAAGTTGCT

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FIGURE 5217

MSGGWMAQVGAWRTGALGLALLLLGLGLGLEAAASPLSTPTSAQAAGPSSGSCPPTKFQCRTSGLCVPLTWRC
RDLDGSDGSDDEECRIEPTQKGQCPPPPGLPCPCTGVSDCSGGTDKKLRNCSRLACLAGELRCTLSDDCIPLTW
RCDGHPDCPDSSDELGCGTNEILPEGDATTMGPPVTLESVTSLRNATTMGPPVTLESVPSVGNATSSSAGDQSGS
PTAYGVIAAAVLSASLVLTATLLLLSWLRAQERLRPLGLLVAMKESLLLSEQKTSLP

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FIGURE 5218A

CCTCGCTCAAGGAGCACCCCGGGGCACCCTCCTGTCCGATGGCAGCCCGGCCCTGTCCAGGAATGTCGGTATGA
CGGTCTCTCAGAAAGGGGGTCCCCAGCCAACACCGAGCCCGGCTGGCCCTGGGACGCAACTCGGACCAATCACAG
GAGAGATGGATGAAGCCGATTCTGCGTTTTTAAAATTTAAGCAGACAGCTGATGACTCTCTGTCCCTTACATCTC
CAAACACCGAGTCCATTTTTGTAGAAGATCCCTACACCGCCTCGCTGAGGAGTGAGATTGAGTCAGACGGCCACG
AGTTTGAAGCTGAGTCCTGGAGCCTCGCCGTGGATGCAGCCTACGCCAAGAAGCAAAAGAGGGAGGTGGTGAAAA
GACAAGATGTCTTTATGAGCTGATGCAGACAGAGGTGCACCACGTGCGGACGCTCAAGATCATGCTGAAGGTGT
ACTCCAGGGCCCTGCAGGAGGAGCTGCAGTTTCAGCAGCAAGGCCATTGGCCGCTCTTCCCATGCGCTGACGACC
TGCTGGAGACGCACAGCCACTTCTCCTCGCTCGGCTCAAGGAGCGCCGCCAGGAGTCCCTGGAGGAGGGCAGTGACC
GGAATTATGTTCATCCAGAAAATCGGCGACCTCCTGGTTTCAGCAGTTTTTCAGGTGAAAATGGGGAGAGAATGAAAG
AAAAGTACGGTGTGTTTTGTAGTGGCCACAATGAAGCTGTTAGTCATTACAAGTTGCTGCTTCAGCAAAACAAGA
AATTTCAAAACTTGATCAAGAAAATTGGCAACTTCTCCATCGTGCGGCGGCTTGGCGTGCAGGAGTGCATTCTCC
TGTTTACACAACGCATAACCAAATACCCAGTGCTGGTGGAGCGCATCATCCAGAACACGGAAGCTGGCACTGAGG
ACTATGAAGACCTGACCCAGGCCTTGAACCTCATCAAGATATCATCTCACAAGTGGACGCCAAGGTGAGTGAGT
GTGAGAAGGGCCAGCGCCTCAGGGAGATCGCAGGGAAGATGGACCTGAAGTCTTCCAGCAAACTCAAGAACGGGC
TCACCTTCCGCAAGGAAGACATGCTTCAGCGGCAGCTCCACCTGGAGGGCATGCTATGCTGGAAGACCACATCAG
GGCGCTTGAAAGATATCCTGGCTATCCTGCTGACCGACGTACTTTTGCTGCTACAAGAAAAGATCAGAAATACG
TCTTTGCTTCTGTGGACTCAAAGCCACCCGTCATCTCGTTACAAAAGCTCATCGTGAGGGAAGTGGCCAACGAGG
AGAAAGCGATGTTTTCTGATCAGCGCCTCCTTGCAAGGGCCGGAGATGTATGAAATCTACACGAGCTCCAAGAGG
ACAGGAACGCCTGGATGGCCACATCAAAGGGCTGTGGAGAGCTGCCCTGACGAGGAGGAGGGGCCCTTCAGCC
TGCCCGAAGAGGAAAGGAAGGTGGTCGAGGGCCGCGCCACGAGACTCCGGGACTTTCAAGAGCGGTTGAGCATGA
AAGACCAGCTGATCGCACAGAGCCTCCTAGAGAAACAGCAGATCTACCTGGAGATGGCCGAGATGGGCGGCCCTCG
AAGACCTGCCCCAGCCCCGAGGCCTATTCCGTGGAGGGGACCCATCCGAGACCCTGCAGGGGGAGCTAATTCTCA
AGTCGGCCATGAGCGAGATCGAGGGCATCCAGAGCCTGATCTGCAGGCAGCTGGGCAGCGCCAACGGCCAGGCGG
AAGACGGAGGCAGCTCCACAGGCCCCGCGCAGGAGGGCTGAGACCTTCGCGGGCTACGACTGCACAAAACAGCCCCA
CCAAGAATGGCAGTTTCAAGAAGAAAGTCAGCAGCACTGACCCAGGCCCCGAGACTGGCGAGGCCCCCAACA
GCCCCGACTTGAAGCTCAGTGACAGTGACATTCTGGGAGCTCTGAGGAATCGCCGAGGTGGTGGAGGCGCCAG
GCACGGAATCCGATCCCCGCTCTGCCACCGTCTTGAGTGGAGCTTGTCCAGCGGATCCAGACACTGTCCAGC
TGCTCTGAACCTTCAGGCGGTAATCGCCACACAGGACAGCTATGTGGAGACGCAGCGGGCTGCCATCCAGGAGC
GGGAGAAGCAGTTCCGGCTGCAGTCGACGCGTGGGAACCTGCTGCTGGAGCAGGAGCGGCAACGCAACTTCGAGA
AGCAGCGGGAGGAGCGCGCGGCCCTGGAGAAGCTGCAGAGCCAGCTGCGGCACGAGCAGCAGCGCTGGGAGCGCG
AGCGCCAGTGGCAGCACCAGGAGCTGGAGCGTGCGGGCGCGCGGCTGCAGGAGCGCGAGGGCGAGGGCGGGCAGC
TACGCGAGCGGCTGGAGCAGGAGCGGGCCGAGCTGGAGCGCCAGCGCCAGGCTACCAGCACGACCTGGAGCGGC
TGCGCGAGGCCCCAGCGTCCGCTGGAGCGCGAGCGGGAGCGCTTGAGCTGCTGCGCCGCTCAAGAAGCAGAAACA
CCGCGCCAGGCGGCTGCCGCCGACACACTGGCCGAGGCCCCAGCCCCAAGCCACCTCCCAGCTTCAACGGGG
AAGGGCTGGAGGGCCCTCGTGTGAGCATGCTGCCATCCGGCGTGGGGCCAGAGTACGAGAGCGCCCCGAGGTGG
CTCGCCGGGACAGCGCCCCACCGAGAACCGGTGGCCAAGAGCGATGTGCCATCCAGCTGCTCAGCGCCACCA
ACCAGTTCCAGAGGCAGGCGGCCGTGCAGCAGCAGATCCCCACCAAGCTGGCGGCCTCCACCAAGGGTGGCAAGG
ACAAGGGCGGCAAGAGCAGGGGCTCTCAGCGCTGGGAGAGCTCAGCGTCTTCGACCTGAAGCAGCAGCTGCTGC
TCAACAAGCTCATGGGGAAAGATGAGAGCACCTCACGGAACCGCCGCTCGCTGAGCCCTATCTTCCCCGGCAGAC
ACAGTCTCGCCCCCACCAGACCTGGCTTCCCCGCCCCGAGCCACCGCCAGCTGACAGCCCCCTCCGAGGGCT
TCTCTCTCAAGGCCGGGGGCACAGCCCTCCTGCCCGGGCCCCAGCTCCCTCGCCACTGCCGGCCACACCACTCA
GCGCCAAGGAGGACGCCAGCAAAGAAGACGTATCTTCTTAAAAGGGCCGTGACTGCAAGAAAGTTTTTAATG
GAAAGTTGAGCCAGAACTAAACCAGGGAGCTGTCTGAAATCATAGCACCCCATCCGGGTGGCGGGGAGATCAACT
CCGAGCTGTTTTTCCGAGGCAGTGAGGAACGGTGCCGGCTCTGCACGGAGCTGAGGACAGGACAGACCTTGCTTT
GAGAAGGAGCTGCCGGCGGGGGCCACGCTCCACAGCCGCCGCGGACAGTGGAGCCAAGGGTTAGGGCACCAGGA
GGGGCCAGGTGGCGTGGCAGCATCTGTCCCCAGAATCAGGCAGAATCCACTTCCCAAACAGAGCCCCACGCGAGG
TTCACCATGAACCTCAGGGTCAGGGAATGAGCCAGGCACGGGGGCATGGGCAGAGAGGGCCACGGGGCAGGGCCC
ACTGAGGGAACATCAGTGGCCCTCCAGTCAGGTTCTGTGGGTTTGGAAGCCCATCGTGAAAGGGGCTGACCTTTG

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FIGURE 5218B

CCCCTTTTACTTGGCATTGGTTTTGAAACCAGCTGTTTCCCAAACCTCTGCTTCCCAAGGGCAACCGTTGCTGTT
CACACGCTCAGCCTGTCTGGGGGAGCGGGCCTCTAGCTTCAGCCAGGGCGGGTACACACCCTGGGCACAGGGTCC
TCAGCCCCCGGGAAATGAGCTCCCAGGGCTGGCGTCCCACCTTCCAGGTGGGGGCTGGCACATCACAGACTGTGCG
AGAGCGCCATGTCCCAGGGCATGCAGAGGATGCACCTAGAGACGTGTCAGCAAGTGGACAAGTGGCCGCTGTGCG
GGCCCCCTCGCTTGTAGTGAGCTGTTGCAGCTTACGGTCCGTTCCCTGGAGGGGTGGAGGAAGGAGGTGTTGGGCA
GCATCAAAGGTGCTGGGACATCCCAGGGTGGTGAGATCCATCCACGATCCAGCTCCGGTGGAGAAAGGGCCCATG
TCAAGCCTTGTTCTGCACCCCAAGCATTGGTGGTAGGACTGGGTCTGGCTGATCGTCTTGTTCACAGTGGGGT
ACATGTGAGCCCCTGCCAGGGCCAAGTCCTTCTCCCGAACCCAGGGTCTGGGAACTGCAGATCCCGGGGGGATT
CAGCCCTTCTCCCACTGTGCTGGCAGAGGCACTCCTGTGACGCTGAATACAGTGAACAGGGACATTCCCGCCACT
CGGGGACAGATGGGCACAAGGGAGGGGAAACTCCATCAGGAAGTGCTCCCTGGGCAGAGGCGCCCACTGGGTGC
TGTGGGCTCAGGAGGGGGCGGGGCAGGAGCTGGTGCCAACCGGAACAGAGCCCCACAGCCATACAGCCCATTG
GTGACAAGGTCTTGAGAACACAGTGGCCAGGTGTCCCAGGCTCCTGGCCCCCTCCGACGACCTCAACTCTGCCCA
GCCCCGTCCCTGGCCATCAGCGACGCTGTCCGCCCCCGTCAGATCCCATGTGTGCCATGTTTATCATCAGTGTT
TTGTATTTTTGTACTGAGTATCGGAGCACTTTACAGAAGCTGACTGTACATTCTGTTCTGTTGTGAAGAGAACA
TTCCAGACCCTGGCACCCCTCCTGAGCCGGCGTGTGCCGCTCCAGCCCTCCGAGATGCCACAATTCTTGGATGG
GGGAGAAGTTCAAGGAATTTCTGCTCGGCCACGCGGTGGGAACCCCGCTCCCCGCCATGTGGCAGAGGGGTCTC
AGTCGTGCTAGGCATCGGGCGGCAGCGCCGACAGCCCTTCCCTCGCCAGTGGCCCTCGGCCACTCCTGGGTTGGA
GCCCCGATTTTATTTGTAAAGTTGACAGTCGAGCAAATGTTCCTATTTTCGTGGGATCTGCACACGTCTTTGTCAG
TTGTGGTCATGATCTTAGTCACCTGCTAATTATTTTACAATGATTACAACATTTCTCTACTGCGGGATATTTCT
GACCCGCTTTAGAACTTAAGACCTGATTCTAGCAATAAACGTGTCCGAGATG

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FIGURE 5219

TCTCCTGTACCTGGGCATCCAGAAAAATGTTGGTGATGGCGCGACTCTCGCGGCCCGAGCGGCCGGACCTTGTCT
TCGAGGAAGAGGACCTCCCTATGAGGAGGAAATCATGCGGAACCAATTCTCTGTCAAATGCTGGCTTCGCTACA
TCGAGTTCAAACAGGGCGCCCCGAAGCCAGGCTCAATCAGCTATACGAGCGGGCACTCAAGCTGCTGCCCTGCA
GCTACAAACTCTGGTACCGATACCTGAAGGCGCGTCGGGCACAGGTGAAGCATCGCTGTGTGACCGACCTGCGCT
ATGAAGATGTCAACAACTGTCTATGAGAGGGCCTTTGTGTTTCATGCACAAGATGCCTCGTCTGTGGCTAGATTACT
GCCAGTTCTCATGACCAGGGGCGCGTCACACACACCCGCGCACCTTCGACCGTGCCCTCCGGGCACTGCCCA
TCACGCAGCACTCTCGAATTTGGCCCTGTATCTGCGCTTCCTGCGCTCACACCCACTGCCTGAGACAGCTGTGC
GAGGCTATCGGGCGTTCTCAAGCTGAGTCTTGAGAGTGCAGAGGAGTACATTGAGTACCTCAAGTCAAGTGACC
GGCTGGATGAGGCCGCGCCAGCGCTGGCCACCGTGGTGAACGACGAGCGTTTCGTGTCTAAGGCCGGCAAGTCCA
ACTACCAGCTGTGGCAGGAGCTGTGCGACCTCATCTCCAGAATCCGGACAAGGTACAGTCCCTCAATGTGGACG
CCATCATCCGCGGGGGCTCACCCTTACACGACCAGCTGGGCAAGCTCTGGTGTCTCTCGCCGACTACTACA
TCCGCGAGCGGCCATTTGAGAAGGCTCGGGACGTGTACGAGGAGGCCATCCGGACAGTGATGACCGTGCGGGACT
TCACACAGGTGTTTTGACAGCTACGCCAGTTTCGAGGAGAGCATGATCGCTGCAAAGATGGAGACCGCTCGGAGC
TGGGGCGCGAGGAGGAGGATGATGTGGACCTGGAGCTGCGCTGGCCCGCTTCGAGCAGCTCATCAGCCGGCGGC
CCCTGCTCCTCAACAGCGTCTTGCTGCGCCAAAACCCACACCAGTGCACGAGTGGCACAAGCGTGTGCGCCCTGC
ACCAGGGCCGCCCCGGGAGATCATCAACACCTACACAGAGGCTGTGCAGACGGTGGACCCCTTCAAGGCCACAG
GCAAGCCCCACACTCTGTGGGTGGCGTTTGCCAAGTTTTATGAGGACAACGGACAGCTGGACGATGCCCGTGTCA
TCCTGGAGAAGGCCACCAAGGTGAATTTCAAGCAGGTGGATGACCTGGCAAGCGTGTGGTGTGAGTGCAGAGC
TGGAGCTCCGACACGAGAACTACGATGAGGCCTTGCGGCTGCTGCGAAAGGCCACGGCGCTGCCTGCCCCGGGG
CCGAGTACTTTGATGGTTGAGAGCCCGTGCAGAACCGCGTGTACAAGTCACTGAAGGTCTGGTCCATGCTCGCCG
ACCTGGAGGAGAGCCTCGGCACCTTCCAGTCCACCAAGGCCGTGTACGACCGCATCCTGGACCTGCGTATCGCAA
CACCCCAGATCGTCATCAACTATGCCATGTTCTGGAGGAGCACAACTTTCGAGGAGAGCTTCAAGGCGTACG
AGCGCGGCATCTCGCTGTTCAAGTGGCCCAACGTGTCCGACATCTGGAGCACCTACCTGACCAAATTCATTGCCC
GCTATGGGGGCCGCAAGCTGGAGCGGGCACGGGACCTGTTTGAACAGGCTCTGGACGGCTGCCCCCAAATATG
CCAAGACCTTGTACCTGCTGTACGCACAGCTGGAGGAGGAGTGGGGCCTGGCCCGGCATGCCATGGCCGTGTACG
AGCGTGCCACCAGGGCCGTGGAGCCCGCCAGCAGTATGACATGTTCAACATCTACATCAAGCGGGCGGCCGAGA
TCTATGGGGTCACCCACACCCGCGGCATCTACCAGAAGGCCATTGAGGTGCTGTGCGACGAGCACGCGCGTGAGA
TGTGCTGCGGTTTGCAGACATGGAGTGCAAGCTCGGGGAGATTGACCGCGCCCGGGCCATCTACAGCTTCTGCT
CCCAGATCTGTGACCCCGGACGACCGGCGCGTTCTGGCAGACGTGGAAGGACTTTGAGGTCCGGCATGGCAATG
AGGACACCATCAAGGAAATGCTGCGTATCCGGCGCAGCGTGCAGGCCACGTACAACACGCAGGTCAACTTCATGG
CCTCGCAGATGCTCAAGGTCTCGGGCAGTGCCACGGGACCGTGTCTGACCTGGCCCTGGGCAGAGTGGCATGG
ACGACATGAAGCTGCTGGAACAGCGGGCAGAGCAGCTGGCGGCTGAGGCGGAGCGTGACCAGCCCTTGCGCGCCC
AGAGCAAGATCCTGTTCTGTGAGGAGTGACGCTCCCGGGAGGAGCTGGCAGAGCTGGCACAGCAGGTCAACCCCG
AGGAGATCCAGCTGGGCGAGGACGAGGACGAGGACGAGATGGACCTGGAGCCCAACGAGGTTTCGGCTGGAGCAGC
AGAGCGTGCCAGCCGCACTGTTTGGGAGCCTGAAGGAAGACTGAACCCGTCCCTCCCCCATCCCCCTCCCCACCC
CCTCCCCAATACAGCTACGTTTGTACATC

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FIGURE 5220

MVVMARLSRPERPDLVFEEEDLPYEEEIMRNQFSVKCWLRYIEFKQGAPKPRLNQLYERALKLLPCSYKLWYRYL
KARRAQVKHRCVTDPAYEDVNNCHERAFVFMHKMPRLWLDYCQFLMDQGRVTHTRRTFDRALRALPITQHSRIWP
LYLRF LRSHPLPETAVRGYRRFLKLSPE SAEEYIEYLKSSDRLEAAQRLATVVNDERFVSKAGKSNYQLWHEL
DLISQNPDKVQSLNVD AIIRGGLTRFTDQLGKLWCSLADYYIRSGHFEKARDVYEEAIRTVMTVRDFTQVFD SYA
QFEESMIAAKMETASELGREEEDDVLELRLARFEQLISRRPLLNSVLLRQNP HHVHEWHKRVALHQGRPREI I
NTYTEAVQTVDPFKATGKPH TLWVAFK FYEDNGQLDDARVILEKATKVNFKQVDDLASVWCQC GELELRHENYD
EALRLLRKATALPARRAEYFDGSEPVQNRVYKSLKVWSMLADLEESLGT FQSTKAVYDRILDRIATPQIVINYA
MFLEEHKYFEESFKAYERGISL FKWP NVSDI WSTYLT KFIARYGGRKLERARDLFEQALDGCPPKYAKTLYLLYA
QLEEEWGLARHAMAVYERATRAVEPAQQYDMFNIYIKRAAEIYGVTHTRGIYQKAIEVLSDEHAREMCLRFADME
CKLGEIDRARAIYSFCSQICDPRTTGAFWQ TWKDFEVRHGNE DTI KEMLRIRRSVQATYNTQVNF MASQMLKVSG
SATGTVSDLAPGQSGMDDMKLLEQRAEQ LAEEAERDQPLRAQSKILFVRSDASREELAE LAQQVNPEEIQ LGED
DEDEMDLEPNEVRLEQQSVPAAVFGSLKED

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FIGURE 5221

ATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATT
GAGCATGAAATGAAGAACGGGATCCCTGCCAATCGAATCGTCCTGGGAGGCTTTTCAÇAGGGCGGGGCCCTGTCC
CTCTACACGGCCCTCACCTGCCCCACCCGCTGGCTGGTATCGTAGCATCGAGCTGCTGGCTGCCTCTGCACCGG
GCCTTCCCCCAGGCAGCTAAAGGCAGTGGCAAGGGCCTGACCATCCTCCAGTGCCATGGGGAGCTGGACCCCATG
GTGCCCCGTACGGTTTGGGACCCTGACGGCTGTTGTACACCTGCCAGGGTCCAGTTCAAGACATACTCGGGTGTC
ATGCACAGCTGCTGTCTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGTTGCTGCCTTCTGTCTAACT
AGTCGCTGGCCCCAGTGCGCCTCCAGGCCCCCAGCCTCTGGGAGAGGGGAGAGAGCTCCTCCTGCCAAGAACACÇ
AGCCCAGGCCCTGTTTCTAGCCCAGGGCGTGCCAGCGGGACCACCAGACACTTCCGGGCCTACCCCAGGAACCCC
GTCCCCGGCCATGGCCCGTCGGTCCC GGCTGCGGGCACCGAGGTGGGGCTCCCCCGGCCAGCTCCGAGTGCCCC
GCCACGGCCCCCGACAGAGGGCCCCCGGAAATCAGTGAGCAGCGCCTCGGAGCACAGTACCACCGAGCCAAGCCC
GGCTGCCAGGAGGCGGCCAGCGCCGCGCGTTCTGGGCCCTCAGCCCGCGGAACACCCAGGGCTCCTGCGCATCC
CTCGCAGCCCCAAGCCGAAAGGACTGCAGGCTCTGCGACCCCTCAGGTACACCCCCAAGGAAGGACGCAGCCCC
AGCACTAGGACCGCTTTCTTCTCTCCTTTGGCCACACCCTCTCCATCGGGTACCAAGGAAGACCCGTACCGCC
TCCCGACAATGCAGCCACTCCCCTGCCAGCCACGCTCCCTCCCTCTCCACCGCCACGCCCCCTCGCAAGTTCCA
CCCACACAGCTGATTATGTCTTTCCAGAAGCAGGCGTCTCTTCCCTGGCCACAGCCGCTTTTGTGGCTTCAGTC
TCTCCATCAGTTTCATCCCTCTGCAGAGACTCTCCTCTTCTGGCCACATTGCCTCTGCAGGCCTCTCCCTCTCC
TTTGACCACAGTCTCTCTGCAGGATCCTCCTCTAGTTTCTCCCTCTCTTTTGGCCTCACCGCCTCTGCAGGCTCC
GCCCCACCCACAGGCCCCACCTTCTATGACTACGCCCCCTATGCAGGCCCCGCGCTCTCTCCAGACCATTCCCCC
AATACAGGTCCCACATTCTCTGACCTCACCGTCTCTGCAGGCACCTCCCTCTCCTCTGGCTTTGTCTCTCTGCA
GGCCACAACCTTCTTTGGGCTCACCCACTCTGCAGGCCACACATTCTTTCTGACAATGTCCCCTAG

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FIGURE 5222

GTGCCCCCTCTGTCCCCTGCTCTACCTCTCTGTCTTGTCTGGCTCTCCCGTCACCCCTCCCTGCCTCTGTCTCTCT
TCTGGCCTGAGCCTGGGCCCAGCCACCTCCTGACCGGAGGGAATCGGTGACGGAGCGGGGCCAAGGGAGGGGTCC
GGAGGGAGTCAGGGATGGAGGGCAGAGGGAGTGGATGTGGGGGTTTGAGGACGTGTGACAAGCTCCAGCAGGGGT
GGGGGCCGGGCTGAGGGTGGGGGTGCGAGGTGGTCACTCCCATCGTGCCCCCTGGCCGTCCCTCCACTCAGCCACA
CCTGGCCCCAGTCCACGTTGAGGTCCAGGACTGGGAAGGACCGGGTGAGTGACCGGGGACCCAGGCCAGGTGCCC
CCCGGAGCCTGCTGGGGTGGCCAGAGCAGGAGGGGGTGTGTTTCTTTTTGTGGGTGTTGCATGCAAATCAAGTG
GACAAGAAAAATAACAAAACAAAAACAAGAAAAAAAACACAAAACCCCGTAAATCACAAGAAAAATCCAA
CACCAAAGGCGCAGAAGCCGGCTGGCCGTGGTGGGGGCAGCGTAGGCGTAGCATCCCTCTCTCTCACTTAGCCT
GTTGACTCTTGTTATTATCATGATATTACAAAACGCCGCATGTTTAAAAAGTCATAGATGTCATCTTCTCTCTG
CCCCAGGGAGGAAAGCCACCTTCTCTTGCCCCCTTGCCCCCTTTGTCAGGGGCCAGGGGTCTGCCGGGTGGGGT
GCCAACAGGCCTGGCCCTTTCTCCCTGCATCCAGCCATGGGGGCCTCTGCGATTGCCGGAAGGTTGCATGGCT
GGTCCCAGGGCCAGCACAGGCCCGAGGCCGGGCTGCCCTGGTTTTATTTTATTTAACTTTATTTTCTGTTTTATG
AGTGTGTGTCCGCCCCACCCCCACCCCTTCAGTGTAAAGTGGGGAGCCCTGGGGGAGTCTCTCTGCTCCAGC
CTCTCCCAAGACCTCCCCCTCGTCACCAGCCATCCCTCTGGACCAGGCAGAGGGCGGACCGGGTGGGCAGGGGC
CTGAGGGTGGCTCGGGCCAGCCACCAGCCAATGGACCCCTCCTCAGGCCGCCAGTGTCGCCCTGCCCTTTTTA
AAACAAAATGCCCTCGTTTGTAACCCCTTAGACGCTTGAGAATAAACCCCTTCCTTTCTTCC

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FIGURE 5223

CGCCGCGAGAAGGTCACACGATTCTCCAACATGGCGGCGGGCGGCCCTGCGGAGTGGCTGGTGCCGCTGTCCACGG
AGATGCCTCGGCAGTGGAATCCAATTTCTTTCCAGCCACAACCTACCCCATGGGTGACCTATCAGATGCGCCGG
CCGGGCGGAGAGCTGCCACTGTCCAAATCATATTCTTCTGGAAACAGAAAAGGCTTTCTGTCCGGCTTGCTAGAT
AATGTCAAACAAGAATTAGCCAAAAACAAAGAAATGAAAGAAAGTATAAAAAAATTCGCTGACGAGGCCAGAAGG
CTAGAAGAATCAGACGTGCTCCAGGAGGCCAGAAGGAAATACAAAACCATCGAGTCAGAAACCGTGCGGACGAGC
GAGGTGCTACGGAAGAAGCTTGGGGAGCTGACGGGCACCGTGAAGGAGAGCCTTCACGAAGTCAGTAAAAGTGAT
CTCGGCCGGAAAAATCAAGGAGGGCGTGGAGGAAGCAGCCAAGACGGCCAAGCAGTCGGCCGAGTCGGTATCCAAA
GGCGGGGAGAAGCTGGGCAGGACAGCGGCCCTTCAGAGCCCTCTCCCAGGGGGTGGAGTCCGTGAAGAAGGAAATT
GACGACAGCGTCCTGGGACAGACCGGGCCCTACCGGAGGCCCCAGCGACTCCGGAAGAGAACGGAGTTTGCGGGA
GATAAGTTCAAGGAGGAGAAAGTGTTTGAGCCAAACGAGGAGGCCCTGGGGGTGCTGCTGCACAAGGACTCCAAG
TGGTACCAGCAGTGGAAGGACTTCAAGGAGAACAACGTGGTGTTTAACCGGTTCTTCGAGATGAAGATGAAGTAT
GACGAAAGCGACAACGCGTTTCATCCGGGCATCCCGGGCCCTTACGGACAAGGTCACCGACTTGCTGGGGGGCCTG
TTCTCCAAGACAGAGATGTGCGAGGTGCTCACGGAGATCCTCCGGGTGGACCCGGCCTTTGACAAGGACCGGTTT
CTGAAACAGTGCGAGAACGACATCATCCCCAATGTCTGGAGGCCATGATTTCTGGAGAGCTTGACATTCTCAA
GACTGGTGCTATGAAGCTACTTACAGCCAGCTGGCCCAACCCCATCCAGCAGGCCAAGGCACTGGGTCTCCAGTTC
CATTCTCGCATCCTAGACATTGACAACGTCGACCTGGCCATGGGCAAGATGATGGAGCAGGGGCCGTGCTGATC
ATCACCTTCCAGGCACAGCTGGTGATGGTGGTCAGGAACCCCAAAGGCGAGGTGGTGGAGGGTGACCCGACAAG
GTGCTGCGGATGCTGTACGTGTGGGCGCTCTGCCGAGACCAGGACGAGCTCAACCCCTACGCGGCCTGGCGGCTC
CTGGACATCTCGGCCTCCAGCACCGAGCAGATTCTCTGAGTGTGGTGCCGGAGCCAGGTAGCCCCGGCCTGGGTC
ATCAGGCACAGAGGCACCGCAACACCACCTGCGGCAACT

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FIGURE 5224

MAAAALRSGWCRCPRRCLGSGIQFLSSHNLPHGSTYQMRRPGGELPLSKSYSSGNRKGFLSGLLDNVKQELAKNK
EMKESIKKFRDEARRLEESDVLQEARRKYKTIESETVRTSEVLRKKLGELTGTVKESLHEVSKSDLGRKIKEGVE
EAAKTAKQSAESVSKGGEKLGRTAAFRALSQGVESVKKEIDDSVLGQTGPYRRPQRLRKRTFAGDKFKEEKVFE
PNEEALGVVLHKDSKWYQQWKDFKENNVFNRFFEMKMKYDESDNAFIRASRALTDKVTDLLGGFLSKTEMSEVL
TEILRVDPAFDKDRFLKQCENDIIPNVLEAMISGELDILKDWCYEATYSQLAHPQQAKALGLQFHSRILDIDNV
DLAMGKMMEQGPVLIITFQAQLVMVVRNPKGEVVEGDPDKVLRMLYVWALCRDQDELNPYAAWRLLDISASSTEQ
IL

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FIGURE 5225

CGCCGGCTCCGCCCCGTCGGGTGTTTGTGGTGGGGCTGCGGAGTCGCCGATCCCGCCGGAAGCGCCAGGACAAT
GGGGACCCGAGACGACGAGTACGACTACCTATTCAAAGTGGTGCTCATCGGGGACTCAGGCGTGGGCAAGAGCAA
CCTGCTGTGCGGCTTCACCCGCAACGAGTTCAACCTGGAGAGCAAGAGCACCATCGGCGTGGAGTTCGCCACCCG
CAGCATCCAGGTGGACGGCAAGACCATCAAGGCGCAGATCTGGGACACCGCTGGCCAGGAGCGCTACCGCGCCAT
CACCTCCGCGTACTACCGTGGTGCAGTGGGCGCCCTGCTGGTGTACGACATCGCCAAGCACCTGACCTATGAGAA
CGTGAGCGCTGGCTGAAGGAGCTGCGGGACCACGCAGACAGCAACATCGTCATCATGCTGGTGGGCAACAAGAG
TGACCTGCGCCACCTGCGGGCTGTGCCCCTGACGAGGCCCCGCGCCTTCGCAGAAAAGAACAACCTTGTCCTTCAT
CGAGACCTCAGCCTTGATTCCACTAACGTAGAGGAAGCATTCAAGAACATCCTCACAGAGATCTACCGCATCGT
GTCACAGAAACAGATCGCAGACCGCGCTGCCCACGACGAGTCCCCGGGGAACAACGTGGTGGACATCAGCGTGCC
GCCCCACCGACGGACGAGAGAAGCCCAACAAGCTGCAGTGTGCCAGAACCTGTGACCCCTGCGCCTCCACCCAGC
GTGCGTGCACGTCTCCGCCCCGCCCCGCCACGGTATCCTCTGGCCCCCTCCCTGCTGTCCCTCTGTGGCCGGCTC
GTTCCAGCCCTCCCAGTGAGCTCTGCACGGCCGGGCGGGGCCAGGAAGGACAGGAGCCAGTGCTACCCCGTCC
TGCCCCGGGGAAAAGCTAGAAGCCCCGGTTTGCTGCACCCATGAAACTCGGGTCCCCACAGCGTCTTGCGGGGGTG
GGGAGGGCGGCAGGATGGACGGGGCTGGCCAGAGGCGAGGAGGACGGGCGGACGGCGCCGCTTCTCCCTTTTC
CTTGCCGACTCTAGGGAGCGATTGCCTCCCTCCCTCTGTGACCGGGTGGCCAGCCAGCCCGTCTGTCACCC
AGAACCGTGCTCTGGGCCAAAGCCGAAGAACCAGGCAGCGGGGGCCGGGGCAGGCGGACCCCCGGGCTCTCAG
CGCCCACCGCTCCTCCGCACACAGCAGCTCGCACAGGCCTCCACCTCTGCCTGTTGATTGATGCAGGGAGAAG
CCCGTCCCCCCTCTCCCTCTCCCTCCCTCTCCTGCACGCAACGCGCCCTCTCGGCCCTCCCTGTCCCCCTC
CTCTGTCTCGTCTCCCCATCTGGTCTGGAACCTGTTTGCAAGTGAAGCAATATCTCCGTGTTTGTATATACAAC
CGCTCTTGTAGCCTTTGGTTTTTGTAAATGTAGAGAAACACAGATTCTTTATACACTTTGTAAGATTTACGCCAA
ACCCAGCTCTCGATCTCTTCTTCTCCCTGTGGCCCCCTGCGCTGTTGCCCCGTCCCCGTACCCCGCCCGTTACT
GAAATGTATAATCTGACTTCTGTACAGAAACCTGC

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FIGURE 5226

CGCGCCGGGAACAGCCAGTCGGTGCCTAACGCGAGTGTATCTCGAGAGAGAAGCGATCAACAGCTGCCGGTCTGC
GCCTGCGCGCGCGGGGGCGTGGCCCGGGGCGAGTGGGGCCAAGGAGGCAGCCGGGAGCGGCGGGCGCAGGTGTT
ACTGGTTGCGTCGGGTACGTGGGCGCGCAGGCGCAGCGCGGTGCAGCCCGTTCGCTCACACAAAAGCCAGACGC
GGAGAAAATGGCGGCAGGGGTCTGAAGCGGCGGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAAGAGAGCGG
CGCGCCCGCGTGCCGAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGAGAA
GAGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGCTTTGAGCCATATGCCAATCCAATAAAAGATACAGAGC
CTTCATTACAAACATACCTTTTGTATGTGAAATGGCAGTCACCTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGT
AACATACGTGGAGCTCTTAATGGACGCTGAAGGAAAGTCAAGGCTCTATAGTGTGTTGAATTCAAGATGGAAGA
GAGCATGAAAAAAGCTGCGGAAGTCTTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGTCAAAGAAGATCC
TGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGCTGGAAGACTTGAAGCACAGTATTTGTAGCAAATCTGGA
TTATAAAGTTGGCTGGAAGAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGA AAAAGTCTGGAATAGGCACGTGTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCTATATC
TATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCTTACCAAAGGAGA
TTTCTTCCCTCCTGAGCGTCCACAACAACCTCCCCATGGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGG
GCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGA
AGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGA AAAACATGGGTCTG
ATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGC
AAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCTTGGCATTGACCGCCTCGG
GGGTGCCGGCATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCAT
GGGCCTGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGG
TGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCTCCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGG
CTCTGGCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCTGAGCATGGAGCGCATGGTGGCCGAGGTAT
GGGAGCTGGCCTGGAGCGCATGGGCCCGGTGATGGATCGCATGGCCACCGCCTGGAGCGCATGGGCGCCAACAA
TCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCATGGGCCTGGAGCGCATGGGTGCCAA
CAGCCTCGAGCGCATGGGCCCGCCATGGGCCCGGCCCTGGGCGCTGGCATTGAGCGCATGGGCTGGCCATGGG
TGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTT
CTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATT
CGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGGCGCCACGTGCTGTACGCCGACATCAAGATGGA
GAATGGGAAGTCCAAGGGGTGTGGTGTGGTTAAGTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGAT
ACATCGATACGAGACCTCTGAATTTGTATTTTTCTTGTTAACCATTTAATTTGTTGGCTGGATGTATAAAGAT
GTTTAAAAAATTCAGTTGCTTTTTGGGGTAATTTGAATTACTTTTTAATGACTGGGGTTCCATTTGACTGTTT
CATTGAGATTGCAATGTGCGCAATTTTTTTTGTAGTTGTGGCATCTTGTGACATCGAATATGACTTTGATAATA
AATACCGGTTCTCG

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FIGURE 5227A

AGTGAAGCGGAAGCCATTACTCTCTGGAGTCGATTGCCCGAGACACATGGGCCAAGGAGGGGTACGCGGCGAAT
TCTTTTCGGCCTGTTGGGGACCCCTCGTGTCCCCACGCCAGACTGGACCTCCCGTATGAACTTCTCTTCGCATCGG
CGGCGGCTTCCGTCACCTCCGCTCCCCGATCCTATTCCAGTCGTATGCCAGCTTGGAGAGTCACGTGAGAGCA
AGAGAGTAGCTTTCTGGTTGTCTGGTGCCCTGCTCAGGCAAACAGACTGCCATTCTCTGAGGATGGCAGCTCTG
TCCCCACATTTGCCACGTCCACCCAGGATTCCACCTGTCTCCAGGACTCAGAAATTCCTGTTTCTTCAAAAAGAC
CATTCCTGTCCCCAGAATTTGGACCTGTTCTGTGTGAGTGGTCTGGAGCCTCACACACCCAGTGTTGGTTCCCAAG
GAATCGGTGACTTTCCAAGATGTCGCTGTGGACTTTACCGAGAAGGAGTGGCCCTTGCTGGATTCTTCTCAGAGA
AAACTGTACAAAGATGTAATGCTGGAGAATAACAGCAACCTCACTTCACTGGGGTATCAGGTCCGCAAAACCCAGC
CTCATCTCACACTTGGAGCAGGAGGAGGAGCCGAGGACAGAGGAGAGGGGCGCTCACCAGGGCGCTTGTGCAGAT
TGGGAGACTCCATCTAAACCAAGTGGTCACTTCTTATGGAAGATATTTTGGGAAGGAAACGCCAGTGGTGTG
ACGATGGAAAGAGCCGGTCTTGGAGAGAAGTCCACTGAATACGCTCACTTGTTCGAAGTCTTGGCATGGACCTT
CATCTCACTCAGCCAATGGGAAGGCACGCTGGCAAGAGGCCCTATCACCGCCGCGACTATGGGGTAGCGTTCAAG
GGCAGGCCGCACCTCACTCAGCACATGAGCATGTACGACGGGAGAAAAATGCATGAATGTATCAGTGCCAAAAA
GCCTTACCACGAGCGCGTCCCTCACACGGCACAGGAGAATCCACACCGGGGAGAAGCCTTACGAGTGCAGCGAC
TGCGGGAAAGCCTTCAACGACCCTTCAGCCCTTAGGAGCCACGCAAGAACTCACCTCAAAGAGAAGCCCTTTGAC
TGCAGTCAGTGTGGAATGCATTCCGGACCCTCTCGGCCCTGAAAATCCACATGCGAGTTCACACTGGCGAGAGG
CCTTACAAGTGTGATCAGTGCAGGGAAGGCTTACGGCCGGAGCTGCCACCTCATCGCACACAAGAGAACGCACACC
GGAGAGAGGCCCTACGAGTGTACGACTGTGGGAAAGCTTTCCAGCACCCCTCCCACCTCAAAGAGCACGTGAGG
AATCACACGGGGGAGAAGCCCTACGCGTGCACGCAGTGGCGCAAAGCCTTCCGCTGGAAGTCCAACTTTAATTTG
CACAAGAAGAACCACATGGTGGAGAAGACCTACGAATGTAAAGAATGCGGGAATCCTTTGGCGATCTCGTGTCC
CGGAGGAAACACATGAGGATTACATCGTCAAGAAACCCGTGGAATGTGCGCAGTGGCGGAAGACCTTCCGAAC
CAGTCCATCCTTAAGACTCACATGAATCTCACACTGGAGAGAAACCATAACGGGTGCGATCTCTGCGGGAAGCT
TTCAGCGCGAGTTCAAACCTCACCGCACACAGGAAGATACACACGCAAGAGAGACGCTACGAATGCGCCGCTGC
GGGAAAGTCTTCGGTGACTATTTATCCCGCGGAGGCACATGAGCGTTCACCTTGTAAGAAACGAGTTGAGTGT
AGGCAGTGTGGCAAGGCCTTCAGGAACCAAGTCAACGCTGAAGACGCACATGCGAAGCCACACGGGGGAGAAACCG
TACGAATGCGATCACTGTGGGAAGGCCTTCAGCATAGGCTCCAACCTGAATGTGCACAGGCGGATCCACACCGGG
GAGAAGCCCTACGAATGCCTTGTCTGCGGGAAAGCCTTCAGCGACCACTCATCCCTCAGGAGCCACGTGAAAAC
CACCGGGGAGAGAAGCTCTTTGTGTATCCGTGTGGAAGGCTCCAGTGGAGCGCGCTGCTTTAGAGACACAGG
ATGATTACAGCCGGAACAGACCTCGTGGGTGTAGAGGAAGCCTCTGTGAGCTCGCACCTTACTGGGTGCAAAA
GAATCCACGGAACCTTGGGAGAAGTCCAGTTCTGTGAAAACAGTGGGAAGACGAGGCGTTCTCATCCATAGGAGGT
TTGTGAGAACTCACGCCGGGGGTGAAAATGTACGTCTGTAGCATGGAGAAGCCTTCAGGGTACATTACAGCTCTTA
ACAAACACAGGAGGACTTAATGGCAGCTTGGCATTTAATGTCAAAATCCAAGCCGTGGCATTTAATGTCAAAATG
ACTTCAGACCACTTCTAGCCTTCTGGGCCCATAGTAATAATGAGCACACTAGGGAGCATCTCTGTAAACACAGT
GGCTGGGGAAACCCCTTCTAGTCTCACTTGATTCTCATGACGGAATCACACTAAAGAGAGAAATCAGTGAAGT
AAGGAACGTGGAAGGTGATGAATGGGCCGCAAAACACGGCCAGCTGCTTGTCTTTGTATGGCTTGGCAGCTAACA
ATAGTGGTTCCATCTTTAAGGAAGAAGAATGTTTGATGGAGAAAATTTGTGGCCAATGAAGTCTGAAATACTTCC
TGTCATCTGCCCTTTCCAGAAAAACTTGGCCGACCCTTGGTCTACAGCACGGGTTCTCAGTCCGGCGACGATTT
GGCTGTCTAGGCGTCATTTGGCAATGTCTAGAGACATTTTGGTAGTTAGAATGGGGGAAGATACTCCTGACTT
GTAATAAGAAGACATCAGAGATGCTGCTAAGTCGGCTCCAGCACACAGGAGCCCCCACAACGAAGAGTTAGTGC
CCCCAAACGTCACTGTTGCTGAGGTTGAAAATAATCATGCAGTCATTCTCAATTACTGCCTGCAGCAATTCCTC
CATTTTTATGAATCTTGTGAGCACTTACGCTAGGAGAAAATTTCTTTTACAAAACCTTTTAAAATACAATTAGTGCT
GATAATTCTATGTGGAATGATTCCAGCCATGGTCCCTCACTTGAAGATGTGAATATTCTCACGGAGAGAAGC
CCCAGCGAGATTTCCGGTGAATACGGGATTGCACTTACTCTTTCATCACGGAAACAGACCCCCCGAGAGAAGCC
CCAACGAGATTTCCGGTGAATACGGGACTGCACGTACTCTCTCATCATGAAAACAGAGCCCCGTTTATAAATTT
TTCATCTTTATTTTAAAGTTATACTCCTCTAAATAACCCCTTAAGCCTCATCAAGAAAGGTTTGTATATAGTATT
TTTACTATAGCTTCATCTTGATAACGTCTTAATTTCTTCTGGACAACCTCCTTGACCAATGGCATATTGAGAT
CTATGTGACATGAGGATATTTCTCAGTACCCTTTGTTACTGGTACCTGATGCACACGGATTGCGACCAGAGCAT
GATGCCCTCCATCAAGTGGTAATATGTTTGCAGCCTGCTGTCCAGCCAAGAGTGACAGATACTTCTAGTGAATTC

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FIGURE 5227B

CCGGTATCCACTCTCATCTTCTTCCAATATCAAGAGAATCCAGGTTCTGTCAGATTAGTAAGGTGTGCTAATCTA
AATTTTAAAAAATCTCTTACAGGTTTTCTTGCAGCTGGTACCATCCATGTCTCACAGCCCTGGCCACTGACAGAT
CAGCAGATGTCACCACATGGGCTTCTGAGAAAGCTCTTGAATGGGGATCGTTCTTAAACATGAATTCCTCCCTGT
ATGTTTTGTTCTTTGCTTTACTTTTCACCTTGCAAAGAGATCCAGTACCTAGTATTGGAAGATCCACCTTAACGA
CCGTGCATATGAAAACACAGTCTAAGGAAGTGACTGCAGAAAGCTCACAGCGACCCTGGCCTCCCCTGTGGCCT
CTTTGAGTGTCTGCAGCAGCCCTGGACTTCCAGACTTCTATCACATGAGAAAAATAAACTGATTATTGGTTTA
AGCTGC

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FIGURE 5228

MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTKEWPLLD
SSQRKLYKDVMLENYSNLTS LGYQVGKPSLISHLEQEEPRTEERGAHQGACADWETPSKTKWSLLMEDIFGKET
PSGVTMERAGLGEKSTEYAHLEVF GMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECH
QCQKAFTTSASLTRHRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHM RVH
TGERPYKCDQCGKAYGRSCHLIAHKRTH TGERPYECHDCGKAFQHPSHLKEHVRNHTGEKPYACTQCGKA FRWKS
NFN LHKKNHMVEKTYECKE CGKSFGDLVSR RKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDL
CGKA FSASSNLTAHRKIHTQERRY ECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKA FRNQSTLKTHMRSHT
GEKPYECDHCGKA FSIGSNLNVHRIHTGEKPYECLVCGKA FSDHSSLRSHVKTHRGEKLFVSSVWKRLQ

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FIGURE 5229

GTGTGCAATGGCTGCACACAGCAGCTTCCTTGGTAGTGTACGCAGCCTGTTGGTTGTATGGGTTGCTCTAAGGGA
CCTTGGAGACAGGCCCTTTCCGATGGATGTTTCATGTTTCTAACCTTGCACTACCACAATGTAGGCTCCAAACAGGC
ATGTGAGGTGCCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTGACATTGGCCAAGTTATCATGTCCATCCGC
ACCAAGCTGCAGAACAAGGAGCATGCGATTGAGGCCTTGCGCAGGGCCAAGTTCAAGTTTCCTGGCCGCCAGAAG
ATCTACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAGAAGCGG
CTCATCCCAGATGGCTGTGGGGTCAAGTACATCCCCAATCGTGGCCCTCTGGACAAGTGGCTGGCCCTGCACTCA
TGAGGGCTTCCAATGTGCTGCCCCCCTATTAATACTACCAATAAATTCTACTTCCTGTCCAAAAAAAAAAAA

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FIGURE 5230

CTAGGTCTGGGACGCCGGGCTAGGGGCGCGTCAATGTTGGCCGCTCACGGTCCC GCCGCCGCTGCTGCTGCTGCTGTG
CTCAGGCCTGGCCGGACAGACTCTCTTCCAGAACCAGAAAGAGGGCTGGCAGCTGTACACCTCAGCCCAGGCCCC
TGACGGGAAATGCATCTGCACGGCCGTGATCCCAGCGCAGAGTACCTGCTCTCGAGATGGCAGGAGTCGGGAGCT
GCGGCAACTGATGGAGAAGGTCCAGAACGTCTCCAGTCCATGGAGGTCCTTGAGTTGCGGACGTATCGCGACCT
CCAGTATGTACGCGGCATGGAGACCCTCATGCGGAGCCTGGATGCGCGGCTCCGGGCAGCTGATGGGTCCCTCTC
GGCCAAGAGCTTCCAGGAGCTGAAGGACAGGATGACGGAAGTGTGGCCCTGAGCTCGGTCTGGAGCAGTACAA
GGCAGACACGCGGACCATTGTACGCTTGCGGGAGGAGGTGAGGAATCTCTCCGGCAGTCTGGCGGCCATTACAGGA
GGAGATGGGTGCCTACGGGTATGAGGACCTGCAGCAACGGGTGATGGCCCTGGAGGCCCGGCTCCACGCCTGCGC
CCAGAAGCTGGGCTGTGGGAAGCTGACCGGGGTGAGTAACCCCATCACCGTTCCGGGCCATGGGGTCCCGCTTCGG
CTCCTGGATGACTGACACGATGGCCCCAGTGCAGGATAGCCGGGTCTGGTACATGGATGGCTATTACAAAGGCCG
CCGGGTCTTGGAGTTCGGTACCTGGGAGACTTCATCAAAGGCCAGAACTTTATCCAGCACCTGCTGCCCCAGCC
GTGGGCGGGCACGGGCCACGTGGTGTACAACGGCTCCCTGTTCTATAACAAGTACCAGAGCAACGTGGTGGTCAA
ATACCACTTCCGCTCGCGCTCTGTGCTGGTGCAGAGGAGCCTCCCGGGCGCCGGTTACAACAACACCTTCCCCTA
CTCCTGGGGCGGCTTCTCCGACATGGACTTCATGGTGGACGAGAGCGGGCTCTGGGCTGTGTACACCACCAACCA
GAACGCGGGCAACATCGTGGTCAGCCGGCTGGACCCGCACACCCTCGAGGTCTGCGGTCTGGGACACCGGCTA
CCCCAAGCGCAGCGCTGGCGAGGCCTTCATGATCTGCGGTGTGCTCTACGTGACCAACTCCCACCTGGCTGGGGC
CAAGGTCTACTTCGCCTATTTTACCAACACGTCCAGTTACGAGTACACGGACGTGCCCTTCCACAACCAGTATTC
CCACATCTCGATGCTGGATTACAACCCCGGGAGCGCGCCCTCTATACCTGGAACAACGGCCACCAGGTGCTCTA
CAATGTACCCCTGTTTACGTCATCAGCACCTCTGGGGACCCCTGAGCCAATGCTGTGGCTCGGGCTGCTGCCTG
GGGGCCTCCGGGGGCTGGGGGCCCTTTTCATTCTGCCTGTGTCCCTCAAGGGTGATCTCTCTGTCTCTGTACG
CCCTTCTCCCCGCCTTTTGTGCTGGGCTTTTGTCTCTGCCTATGTATTTCTGTCTATTTTTTCAATTTCCCCTC
TTCTCCTTTATTGATCTCTGCTTTTAATACACCACTTCTTTCTTTCTGCCTTTTTATGGATGCTTTTTCTTTTT
ATGGCTCTGGTTCTCCAGTCTTTCCGTCTCTGCCTCTCTCTGTCTCTCTCTCTGTCTTCCACCCCTCCCTC
CTTGCTTCCACCCATTCCCTCATCCCTCACTCCACCCCCACCCCCACCCCCAGGAGTTGAGTGCATGGATCTGT
TTCTTTTTTTATTTACACTTTTCTTTCCGGTTTGCCGGAATAAACAGGACCTTTGACATTTGAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5231

MWPLTVPPPLLLLLCSGLAGQTLFQNP EEGWQLY TSAQAPDGKC ICTAVIPAQSTCSR DGRSREL RQLMEKVQNV
SQSMEVLELR TYRDLQYVRGMETLMRSLDARLRAADGSLSAKSFQELKDRMTELLPLSSVLEQYKADTRTIVRLR
EEVRNLSGSLAAIQEEMGAYGYEDLQQRVMALEARLHACAQKLGCGKLTGVSNPITVRAMGSRFGSWMTDTMAPS
ADSRVWYMDGYKGRRVLEFRTLGDFIKGQNF IQHLLPQPWAGTGHVVYNGSLFYNKYQSNVVVKYHFRSRSVLV
QRSLPGAGYNNTFPYSWGGFSDMDFMVDESGLWAVYTTNQNAGNIVVSRLDPHTLEV MRSWDTGYPKRSAGEAFM
ICGVLYVTNSHLAGAKVYFAYFTNTSSYEYTDVPFHNQYSHISMLDYNPRERALYTWNNGHQVLYNVTLFHVIST
SGDP

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FIGURE 5232

AGGAGGCCTCGTGGAGGACACAGCAGCATGGGACAGTCAGGGAGGTCCCGGCACCAGAAGCGCGCCCGCGCCCAG
GCGCAGCTCCGCAACCTCGAGGCCTATGCCGCGAACCCGCACTCGTTTCGTGTTACGCGAGGCTGCACGGGTTCG
AACATCCGGCAGCTCAGCCTGGACGTGCGGCGGGTCATGGAGCCGCTCACTGCCAGCCGTCTGCAGGTTCTGTAAG
AAGAACTCGCTGAAGGACTGCGTGGCAGTGGCTGGGCCCCCTCGGGGTACACACTTTCTGATCCTGAGCAAAACA
GAGACCAATGCTCTACTTTAAGCTGATGCGCCTCCCAGGAGGCCCCACCTTGACCTTCCAGGTGAAGAAGTACTCG
CTGGTGCCTGATGTGGTCTCCTCACTGCGCCGGCACCGCATGCACGAGCAGCAGTTTGCCACCCACCCCTCCTG
GTACTCAACAGCTTTGGCCCCATGGTATGCATGTGAAGCTCATGGCCACCATGTTCCAGAACCTGTTCCCTCC
ATCAACGTGCACAAGGTGAACCTGAACACCATCAAGCGCTGCCTCCTCATCGACTACAACCCCGACTCCAGGAG
CTGGACTTCCGCCACTATAGCATCAAAGTTGTTCTGTGGGCGCGAGTCGCGGGATGAAGAAGCTGCTCCAGGAG
AAGTTCCCCAACAATGAGCCGCTGCAGGACATCAGCGAGCTGCTGGCCACGGGCGCGGGGCTGTGCGGAGAGCGAG
GCAGAGCCTGACGGCGACCACAACATCACAGAGCTGCCTCAGGCTGTGCTGGCCGTGGCAACATGCGGGCCCAG
CAGAGTGCAGTGCAGGCTACCGAGATCGGCCCGCGGATGACACTGCAGCTCATCAAGGTCCAGGAGGGCGTCCGG
GAGGGCAAAGTGATGTTCCACAGTTTGTGAGCAAGACGGAGGAGGAGCTGCAGGCCATCCTGGAAGCCAAGGAG
AAGAAGCTGCGGCTGAAGGCGCAGAGGCAGGCCCAGCAGGCCCAGAATGTGCAGCGCAAGCAGGAGCAGCGGGAG
GCCACAGAAAGAAGAGCCTGGAGGGCATGAAGAAGGCACGGGTGCGGGGTAGTGATGAAGAGGCCTCTGGGATC
CCTTCAAGGACGGCGAGCCTGGAGTTGGGTGAGGACGATGATGAACAGGAAGATGATGACATCGAGTATTTCTGC
CAGGCGGTGGGCGAGGCGCCAGTGAGGACCTGTTCCCCGAGGCCAAGCAGAAACGGCTTGCCAAGTCTCCAGGG
CGGAAGCGGAAGCGGTGGGAAATGGATCGAGGCAGGGGTGCGCTTTGTGACCAGAAGTTTCCCAAGACCAAGGAC
AAGTCCCAGGGAGCCCAGGCCAGGCGGGGGCCCAGAGGGGCTTCCCGGGATGGTGGGCGAGGCCGGGGCCGGGGC
CGCCAGGGGAAGAGAGTGCCCTGAAGCCCAAGCCGCACCGGAGCAGCGGCTGGATTGAACGCCCCAGATTGGGGCC
CGAGATGTGGCCCTCGGTTTCCTTTCATAAAGGAGTTGTGTCCCCAGCCCTTCCACTCCAGTAAAGAAGTGAATT
GGC

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FIGURE 5233

MGQSGRSRHQKRARAQAQLRNLEAYAANPHSFVFTRGCTGRNIRQLSLDVRRVMEPLTASRLQVRKKNSLKDCVA
VAGPLGVTHFLILSKTETNVYFKLMRLPGGPTLTTFQVKKYSLV RDVVSSLRRHRMHEQQFAHPPLLVLNSFGPHG
MHVKLMATMFQNLFP SINVHKVNLNTIKRCLLIDYNPDSQELDFRHYSIKVVPVGASRGMKKLLQEKFPNMSRLQ
DISELLATGAGLSESEAE PDGDHNITELPQAVAGRGNMRAQQSAVRLTEIGPRMTLQLIKVQEGVGEGKVMFHSF
VSKTEELQAILEAKEKKLRLKAQRQAQQAQNVQRKQEQREAHKKKSLEGMKKARVGGSDDEASGIPSR TASLEL
GEDDDEQEDDDIEYFCQAVGEAPSEDLFPEAKQKRLAKSPGRKRKRWEMDRGRGRLCDQKFPKTKDKSQAQARR
GPRGASRDGGRGRGRGRPGKRVA

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FIGURE 5234

CTTTTTCGGATGCCTACTGGGGACTTTGATTCTGAAGCCCAGTTGGGCCGACCAGGTGGAGGAGGAGGGGGAGGAC
GACAAATGTGTCACCAGCGAGCTCCTCAAGGGGATCCCTCTGGCCACAGGTGACACCAGCCCAGAGCCAGAGCTA
CTGCCGGGAGCTCCACTGCCGCTCCCAAGGAGGTCATCAACGGAAACATAAAGACAGTGACAGAGTACAAGATA
GATGAGGATGGCAAGAAGTTCAAGATTGTCCGCACCTTCAGGATTGAGACCCGGAAGGCTTCAAAGGCTGTGCA
AGGAGGAAGAAGTGAAGAAGTTCGGGAAGTCAGAGTTTGACCCCCCGGACCCAATGTGGCCACCACCACTGTC
AGTGACGATGTCTCTATGACGTTTCATCACCAGCAAAGAGGACCTGAACTGCCAGGAGGAGGAGGACCCCTATGAAC
AAACTCAAGGGCCAGAAGATCGTGTCTGCGCATCTGCAAGGGCGACCACTGGACCACCCGCTGCCCTTACAAG
GATACGCTGGGGCCCATGCAGAAGGAGCTGGCCGAGCAGCTGGGCCTGTCTACTGGCGAGAAGGAGAAGCTGCCG
GGAGAGCTAGAGCCGGTGCAGGCCACGCAGAACAAGACAGGGAAGTATGTGCCGCCGAGCCTGCGCGACGGGGCC
AGCCGCCCGGGGAGTCCATGCAGCCCAACCGCAGAGCCGACGACAACGCCACCATCCGTGTACCAACTTGTCA
GAGGACACGCGTGAGACCGACCTGCAGGAGCTCTTCCGGCCTTTCGGCTCCATCTCCCGCATCTACCTGGCTAAG
GACAAGACCACTGGCCAATCCAAGGGCTTCGCCTTCATCAGCTTCCACCGCCGCGAGGATCGTGCGCGTGCCATT
GCCGGGGTGTCCGGCTTTGGCTACGACCACCTCATCTCAACGTGAGTGGGCCAAGCCGTCCACCAACTTAAGCC
AGCTGCCACCGTGTACTCGGTCCGGGACCCCTTGGCGACAGAAGACAGCCTCCGAGAGCGCGGGCTCCAAGGGCAA
TAAAGCAGCTCCACTCTCAA

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FIGURE 5235

MPTGDFDSKPSWADQVEEEGEDDKCVTSELLKGIPLATGDTSPPELLPGAPLPPPKEVINGNIKTIVTEYKIDED
GKKFKIVRTFRIETRKASKAVARRKNWKKFGNSEFDPPGPNVATTTVSDDVSMTFITSKEDLNCQEEEDPMNKLK
GQKIVSCRICKGDHWTTRCPYKDTLGPMQKELAEQLGLSTGEKEKLPGELEPVQATQNKGTGKYVPPSLRDGASRR
GESMQPNRRADDNATIRVTNLS EDTRETDLQELFRPFGSISRIYLAKDKTTGQSKGFAFISFHRREDRARAIAGV
SGFGYDHLILNVEWAKPSTN

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FIGURE 5236

TGTGAGGTCGCGTTCCCCAGTGTTACGGAGGGTCCTTGAGGCAGGAGTGAAAATTGGGTCTGGGGGTTAGTCCTG
GGGTGGAGGTCCTGGGCACGCCGGGTTCGGACCCCTCCATCTTCGGTTTTGCACACCCGCTTTCCAGCGCGGAGT
CGCGGCGGGTAGGGCGGCGTCGCGTGCGTGACGTATCCAGCGGCGCCTCGCGAGGCTCCAGTGGCCTTGACCTC
CCGCGGCGTGGGAGGCTGCGCGGCGATGCTGCAGTTCGTCCGGGCCGGGGCGCGGGCCTGGCTTCGGCTACCGG
CAGCCAGGGCCTGAGTTCCCTGGCGGAAGAGGCAGCGGTGCGACCGAGAACCCGGAGCAGGTGGCGAGCGAGGG
TCTCCCGGAGCCCGTGCTGCGCAAAGTCGAGCTCCCGGTACCCACTCATCGACGCCAGTGCAGGCCTGGGTGCA
GTCCTTGCGGGGCTTCGAGCAGGAGCGCGTGGGCTGGCCGACCTGCACCCGATGTTTTGCCACCGCGCCAG
GCTGGACATACTGCACCAGGTTGCTATGTGGCAGAAGAACTTCAAGAGAATTAGCTATGCCAAGACCAAGACGAG
AGCCGAGGTGCGGGCGGTGGCCGGAAGCCTTGGCCGCGAGAAAGGCACTGGGCGGGCCCGGCATGGCAGCATCCG
CTCTCCGCTCTGGCGAGGAGGAGGTGTTGCCCATGGCCCCCGGGGCCCCACAAGTTACTACTACATGCTGCCCAT
GAAGGTGCGGGCGCTGGGTCTCAAAGTGGCACTGACCGTCAAGCTGGCCCAGGACGACCTGCACATCATGGACTC
CCTAGAGCTGCCCACCGGAGACCCACAGTACCTGACAGAGCTGGCGCACTACCGCCGCTGGGGGGACTCCGTACT
CCTCGTGGACTTAACACACGAGGAGATGCCACAGAGCATCGTGGAGGCCACCTCTAGGCTTAAGACCTTCAACTT
GATCCCGGCTGTTGGCCTAAATGTGCACAGCATGCTCAAGCACCAGACGCTGGTCCTGACGCTGCCACCGTCGC
CTCCTGGAGGACAAGCTGCTCTGGCAGGACTCACGTTACAGACCCCTCTACCCCTTCAGCCTGCCCTACAGCGA
CTTCCCCGACCCCTACCCACGCTACCCAGGGCCAGCGGCCACCCCGTACCACTGTTGATGTGAAGCACCTCT
TCTGAGCCAGGCCGAGCCCTGGCCGACTTGGGAGCCTCAGGCCCACGCCACCCCTTCGAGGAAGGTGTACCTG
GACCCCTTCATTCCACGGAGGAAGCTGAGGCCACAGGGAGCGGCCATCGCCATTGGGAAGGGGCGACTCCACGGA
AAGCCCAGACGGGCTTCTGCATCCATTCCCTCTTTTGTTTTTTAAATAAATTGTATTTTG

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FIGURE 5237

GGCACGAGGCCGCCACCCGAGCCGGAGCGGGCTGGGCCGCCAAGGCAAGATGGTGGACTACAGCGTGTGGGACCA
CATTGAGGTGTCTGATGATGAAGACGAGACGCACCCCAACATCGACACGGCCAGTCTCTTCCGCTGGCGGCATCA
GGCCCGGGTGGAACGCATGGAGCAGTTCCAGAAGGAGAAGGAGGAACTGGACAGGGGCTGCCGCGAGTGCAAGCG
CAAGGTGGCCGAGTGCCAGAGGAACTGAAGGAGCTGGAGGTGGCCGAGGGCGGCAAGGCAGAGCTGGAGCGCCT
GCAGGCCGAGGCACAGCAGCTGCGCAAGGAGGAGCGGAGCTGGGAGCAGAAGCTGGAGGAGATGCGCAAGAAGGA
GAAGAGCATGCCCTGGAACGTGGACACGCTCAGCAAAGACGGCTTCAGCAAGAGCATGGTAAATACCAAGCCCCGA
GAAGACGGAGGAGGACTCAGAGGAGGTGAGGGAGCAGAAACACAAGACCTTCGTGGAAAAATACGAGAAACAGAT
CAAGCACTTTGGCATGCTTCGCCGCTGGGATGACAGCCAAAAGTACCTGTCAGACAACGTCCACCTGGTGTGCGA
GGAGACAGCCAATTACCTGGTCATTTGGTGCATTGACCTAGAGGTGGAGGAGAAATGTGCACTCATGGAGCAGGT
GGCCACCAGACAATCGTCATGCAATTTATCCTGGAGCTGGCCAAGAGCCTAAAGGTGGACCCCGGGCCTGCTT
CCGGCAGTTCTTCACTAAGATTAAGACAGCCGATCGCCAGTACATGGAGGGCTTCAACGACGAGCTGGAAGCCTT
CAAGGAGCGTGTGCGGGGCCGTGCCAAGCTGCGCATCGAGAAGGCCATGAAGGAGTACGAGGAGGAGGAGCGCAA
GAAGCGGCTCGGCCCGGGCGGCCTGGACCCCGTTCGAGGTCTACGAGTCCCTCCCTGAGGAACTCCAGAAGTGCTT
CGATGTGAAGGACGTGCAGATGCTGCAGGACGCCATCAGCAAGATGGACCCACCGACGCAAAGTACCACATGCA
GCGCTGCATTGACTCTGGCCTCTGGGTCCCCAACTCTAAGGCCAGCGAGGCCAAGGAGGGAGAGGAGGCAGGTCC
TGGGGACCCATTACTGGAAGCTGTTCCCAAGACGGGCGATGAGAAGGATGTCAGTGTGTGACCTGCCCCAGCTAC
CACCGCCACCTGCTTCCAGGCCCTATGTGCCCCTTTTCAGAAAACAGATAGATGCCATCTCGCCCGCTCCTGAC
TTCCTCTACTTGCGCTGCTCGGCCAGCCTGGGGGGCCGCCAGCCCTCCCTGGCCTCTCCACTGTCTCCACTC
TCCAGCGCCCAATTCAAGTCTCTGCTTTGAGTCAAGGGGCTTCACTGCCTGCAGCCCCCATCAGCATTATGCCAA
AGGCCCCGGGGTCCGGGGAAGGGCAGAGGTCAACAGGCTGGTCTACCAGGTAGTTGGGGAGGGTCCCCAGCCAAG
GGGCCGGCTCTCGTCACTGGGCTCTGTTTCACTGTTCTGCTGTCTGTCTTCTATTTGGCAAACAGCAAT
GATCTTCCAATAAAAGATTTAGATGCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5238

MVDYSVWDHIEVSDDDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQQRKLKELEVAE
GGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSKDGFSKSMVNTKPEKTEEDSEEVREQKHKT
FVEKYEKQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQITVMQFIELELAKS
LKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVGRAKLRIEKAMKEYEEEEERKKRLGPGGLDPVEVYES
LPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDFLLEAVPKTGDEKD
VSV

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FIGURE 5239

CGCGCAGCGATGGAGGCGCCGGGGCTCGGGCGGTGGAGGCGGAGCCGGAGCGCGGCCATGGCGGGGTCCCTGAGT
GCCAGAGGTGGTGGTGTGCTTATCTTCTGGAACCCCATGCAGCCAGATCCCAGGCCCTAGCGGGGCTGGGGCCTG
CTGCCGATTCTGCCCCCTGCAGTCACAGTGGCCTGAGGGGGCAGGGGACGCGGTGATGTACGCCTCCACTGAGTG
CAAGGCGGAGGTGACGCCCTCCAGCATGGCAACCGCACCTTCAGCTACACCCTGGAGGATCATACCAAGCAGGC
CTTTGGCATCATGAACGAGCTGCGGCTCAGCCAGCAGCTGTGTGACGTCACACTGCAGGTCAAGTACCAGGATGC
ACCGGCCGCCAGTTTCATGGCCACAAGGTGGTGTGCTGGCCTCATCCAGCCCTGTCTTCAAGGCCATGTTACCAA
CGGGCTGCGGGAGCAGGGCATGGAGGTGGTGTCCATTGAGGGTATCCACCCCAAGGTCATGGAGCGCCTCATTGA
ATTGCGCTACACGGCCTCCATCTCCATGGGCGAGAAGTGTGTCTCCACGTCATGAACGGTGCTGTTCATGTACCA
GATCGACAGCGTTGTCCGTGCCTGCAGTGACTTCCTGGTGCAGCAGCTGGACCCAGCAATGCCATCGGCATCGC
CAACTTCGCTGAGCAGATTGGCTGTGTGGAGTTGCACCAGCGTGCCCGGGAGTACATCTACATGCATTTTGGGGA
GGTGGCCAAGCAAGAGGAGTTCTTCAACCTGTCCCACTGCCAATGGTGACCCTCATCAGCCGGGACGACCTGAA
CGTGCGCTGCGAGTCCGAGGTCTTCCACGCCTGCATCAACTGGGTCAAGTACGACTGCGAACAGCGACGGTTCTA
CGTCCAGGCGCTGCTGCGGGCCGTGCGCTGCCACTCGTTGACGCCGAACCTTCTGCAGATGCAGCTGCAGAAGTG
CGAGATCCTGCAGTCCGACTCCCGCTGCAAGGACTACCTGGTCAAGATCTTCGAGGAGCTCACCCTGCACAAGCC
CACGCAGGTGATGCCCTGCCGGGCGCCCAAGGTGGGCGCGCTGATCTACACCGCGGGCGGCTACTTCCGACAGTC
GCTCAGCTACCTGGAGGCTTACAACCCCACTGACGGCACCTGGCTCCGGTTGGCGGACCTGCAGGTGCCGCGGAG
CGGCCTGGCCGGCTGCGTGGTGGGCGGGCTGTTGTACGCCGTGGGCGGCAGGAACAACCTCGCCCGACGGCAACAC
CGACTCCAGCGCCCTGGACTGTTACAACCCCATGACCAATCAGTGGTCGCCCTGCGCCCCCATGAGCGTGCCCCG
TAACCGCATCGGGGTGGGGGTATCGATGGCCACATCTATGCCGTGCGCGGCTCCACGGCTGCATCCACCACAA
CAGTGTGGAGAGGTATGAGCCAGAGCGGGATGAGTGGCACTTGGTGGCCCCAATGCTGACACGAAGGATCGGGGT
GGGCGTGGCTGTCTCAATCGTCTCCTTTATGCCGTGGGGGGCTTTGACGGGACAAACCGCCTTAATTTCAGCTGA
GTGTTACTACCCAGAGAGGAACGAGTGGCGAATGATCACAGCAATGAACACCATCCGAAGCGGGGAGGCGTCTG
CGTCTGCACAACGTATCTATGCTGCTGGGGGCTATGATGGTCAGGACCAGCTGAACAGCGTGGAGCGCTACGA
TGTGGAAACAGAGACGTGGACTTTTCGTAGCCCCCATGAAGCACCGGCGAAGTGCCCTGGGGATCACTGTCCACCA
GGGGAGAATCTACGTCTTTGGAGGCTATGATGGTCACACGTTTCTGGACAGTGTGGAGTGTACGACCCAGATAC
AGACACCTGGAGCGAGGTGACCCGAATGACATCGGGCCGGAGTGGGGTGGGCGTGGCTGTACCATGGAGCCCTG
CCGGAAGCAGATTGACCAGCAGAACTGTACCTGTTGAGGCACTTTTGTCTTGGGCAAAAATACAGTCCAATGG
GGAGTATCATTGTTTTTGTACAAAAACCGGGACTAAAAGAAAAGACAGCACTGCAAATAACCCATCTTCCGGGAA
GGGAGGCCAGGATGCCTCAGTGTTAAATGACATCTCAAAGAAAGTCCAAAGCGGGAATCATGTGCCCTCAGCG
GAGCCCCGGGAGTGTCCAAGACAGCCTGGCTGGGAAAGGGGGTGTGGAAAGAGCAGGCTTCCAGGAGAGAGGCC
CCAAACCTCTGGCCGGGTAATAGGCCTGGGTCCCACTACCCATGCCGGCAGCTGTACCATGTGATTTATTCT
TGGATACCTGGGAGGGGGCCAATGGGGGCTCAGGGGGAGGCCCCCTCTGGAAATGTGGTTCCAGGGATGGGCC
TGTACATAGAAGCCACCGGATGGCACTTCCCCACCGGATGGACAGTTATTTGTTGATAAGTAACCCTGTAATTT
TCCAAGGAAAATAAAGAACAGACTAACTAGTGTCTTTC

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FIGURE 5240

TTTTACAAAACGCTCTCCTTGTTGAAGAAGAAGGACCCCCGCATTTATCAGAAAGATGCCACCTTCTATAACAGA
ACAGCATCGTCATCAGACAGTGAGGAGGACCCAGAAGCCTTGGAGAAGCAGAAGAAAGTGCGGCCCATGTACCTG
AAGGACTACGAGAGGAAGGTTATCTTGGAGAAGGCAGGCAAATATGTTGATGAGGAGAAGCTCAGACGGGGAGACT
TCCAATCAGACTCCAGGAGACATCGTCGCAAAGTTATGTGGAGGAACAGAAACAGCTCAAGGAAAGCTTCCGG
GCATTTGTGGAGGACAGTGAGGACGAGGACGGCGCTGGGGAGGGCGGCTCCAGTTTGCTGCAGAAACGTGCCAAA
ACCAGGCAGGAGAAGGCCAGGAGGAGGCCGACTACATCGAGTGGCTGAAGGGACAGAAAGAGATTCCGAACCCA
GATTCCTGAAGGAAGTACGCATCTCAAGGAATACTGGAACGACCTGAGTTGGATGAAGGGGAGCGGTTCCCTG
CGGGATTACATCCTCAACAAACGCTATGAGGAGGAGGAAGAGGAGGAGGAAGATGAAGAGGAAATGGAGGAAGAG
GAGGGGGTCCACGGTCCCCCAGTCCAGCTGGCTGTGGACGACTCCTCAGACGAAGGGGAGCTGTTTCTGAAGAAA
CAGGAGGACTTTGAACAGAAGTACAATTTCCGTTTCGAGGAGCCGGACTCAGCATCGGTCAAGACCTACCCACGC
AGCATCGGTCCTCCGTGCGCCGTAAGGATGAGCGCAGAAAGGAGAAAGAGGGGAAGAGACTCGGGAGCGAAAGAAG
AGGGAGAAAGCAAAGAAGCAGGAAGAGCTCAAGCAGCTGAAGAACCTGAAGAGGAAGGAGATTCTGGCCAAGCTG
GAGAAGCTGCGGAAAGTAACAGGCAACGAGATGCTGGGCCTCGAGGAGGGGGACCTTGAAGACGACTTCGACCCT
GCCAGCACGACCAGCTCATGCAGAAAGTGCTTTGGGGACGAGTACTACGGGGCCGTGGAGGAGGAGAAGCCACAA
TTTGAGGAAGAAGAAGGGCTTGAAGACGACTGGAAGTGGGACACGTGGGACGGGCCTGAGCAGGAGGGAGACTGG
AGCCAGCAGGAGCTGCACTGTGAGGACCCCAACTTCAACATGGACGCCGACTACGACCCAGCCAGCCGAGGAAG
AAAAAGCGCGAGGGCCCCCTTGACGGGCAAGAAGAAGCGCAAGTCGCCCTTCGCCGCGGCCGTGGGGCAGGAGAAG
CCCGTGTGTTGAACCCGGGGACAAGACGTTTCGAGGAGTACCTGGATGAGTATTACCGGCTGGACTACGAGGACATC
ATCGACGACCTGCCCTGTCGCTTCAAGTACCGCACAGTGGTGCCCTGTGACTTTGGCCTCAGCACTGAGGAGATC
CTCGCTGCTGACGATAAGGAGCTGAACCGGTGGTGCTCCCTAAAGAAGACCTGCATGTACAGGTGAGAGCAGGAG
GAGCTGCGGGACAAGCGGGCGTACAGCCAGAAGGCCACAGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
TGCCGAGAAGAGGCAGAGACACCTGCGGAAGCCACAGGGAAGCCACAGAGAGATGAAGCCGGCCACAGAGGCAG
CTGCCAGCCCTTGATGGCAGCTTGATGGGGCCGGAGAGTCCCCAGCACAGGAAGAGGAAGCCCTGTATACCC
CACAAGAAGCCAGCCCCCAGAAGCGGAGGAGGGCCAAGAAGGCACGGCTGCTGGGCCCCACTGTGATGCTTGGT
GGATGCGAGTTTCAGCCGCCAGAGACTGCAGGCCTTTGGCCTCAACCCCAAACGGCTGCACTTCCGCCAGCTGGGC
CGGCAGCGGAGGAAAACAACAGGGGCCCAAGAACAGCTCCTGAGCACCAGGAGCAGGCAGGGGCCCTCAGGCTCCT
CTCCTCAAATCAAGCCCTGGACAGGTCTCGCACCCACAAGTACTATCTGCTGCAGAGATCCTCTCATCTGTGGCC
AGGCACGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGAAAGGATCACTTGAGCCAGGAATTGGAGACCAGC
GTGGGCAACTTAGCGAGACTCCATCTCTACAAAATGTGGTGACACATGCCTGTAGTCCCAGCTACTCAGGAGGCT
GGGGAAGGAAGATCACTTAAGGCCATGAGTTTGAGGCTACAGAGAGCTATGATTGCACCACTGCACTCCAGCCTG
GGCAACAAAGCAAGACCCTGTCTCTTG

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FIGURE 5241

GGCGCTTCCGCAGGAAGAAGGAAGCGGCGCCGCCATCGCCTCCCGGCGCTCCCTCCCCGACTCCTAAGTCCTTCG
GCCGCCACCAATGTCCTCGGCTGTCTTCATTCTGGACGTTAAGGGCAAGCCATTGATCAGCCGCAACTACAAG
GGCGATGTGGCCATGAGCAAGATTGAGCACTTCATGCCTTTGCTGGTACAGCGGGAGGAGGAAGGCGCCCTGGCC
CCGCTGCTGAGCCACGGCCAGGTCCACTTCCTATGGATCAAACACAGCAACCTCTACTTGGTGGCCACCACATCG
AAGAATGCCAATGCCTCCCTGGTGTACTCCTTCCTGTATAAGACAATAGAGGTATTCTGCGAATACTTCAAGGAG
CTGGAGGAGGAGAGCATCCGGGACAACCTTTGTCTCGTCTACGAGTTGCTGGACGAGCTCATGGACTTTGGCTTC
CCGCAGACCACCGACAGCAAGATCCTGCAGGAGTACATCACTCAGCAGAGCAACAAGCTGGAGACGGGCAAGTCA
CGGGTGCCAACCACTGTCAACACGCTGTGTCTGGCGCTCCGAGGGTATCAAGTATAAGAAGAACGAGGTCTTC
ATTGATGTCTAGAGTCTGTCAACCTGCTGGTCAATGCCAACGGCAGCGTCCTTCTGAGCGAAATCGTCGGTACC
ATCAAGCTCAAGGTGTTTCTGTCTAGGAATGCCAGAGCTGCGGCTGGGCTCAATGACCGCGTGCTCTTCGAGCTC
ACTGGCCGCAGCAAGAACAATCAGTAGAGCTGGAGGATGTAAATTCACCAAGTGCGTGCGGCTCTCTCGCTTT
GACAACGACCGCACCATCTCCTTCATCCCGCTGATGGTGACTTTGAGCTCATGTCTATACCGCCTCAGCACCCAG
GTCAAGCCACTGATCTGGATTGAGTCTGTCTATTGAGAAGTTCTCCACAGCCGCGTGAGATCATGGTCAAGGCC
AAGGGGCAGTTTAAGAAACAGTCAGTGGCCAACGGTGTGGAGATATCTGTGCCTGTACCCAGCGATGCCGACTCC
CCCAGATTCAAGACCAGTGTGGGCAGCGCCAAGTATGTGCCGGAGAGAAACGTCGTGATTGGAGATTAAAGTCT
TTCCCGGGGGGAAGGAGTACTTGATGCGAGCCCACTTTGGCTCCCCAGTGTGGAAAAGGAAGAGGTGGAGGGC
CGGCCCCCATCGGGGTCAAGTTTGAGATCCCCTACTTCACCGTCTCTGGGATCCAGGTCCGATACATGAAGATC
ATTGAGAAAAGTGTTTACCAGGCCCTGCCCTGGGTTCGCTACATCACCCAGAGTGGCGATTACCAACTTCGTACC
AGCTAGAAGGGAGAAGAGATGGGGGCTTGAACACGGGGCTTCCTTACAGCCCCGGATGCAGATTTTAGAGGGAGG
GCAGGTGCGGGCTGTGTGTCTGTGTGAGGGCAGGTCTTGACTTGGCAGTTTCTTGCTCCCAGCACCCGCCCC
TTCCTCACCTCTTCCTTATTCATAGGCTGGGAGAGAACTCTCTGCTTCCCTCGCCCTTGGAGCTTTCCCCATC
CCCCTGATTTTATATGAAGAAATAGAAGAGGGGCTTGAAGTCCCCCTCGCGAGTGCTTCTTGCAATTACCTGCC
TTAGCGGTGTTGCGGGTCCCTCCTTCACAGCCGCTGAGCCCAGAGGTCCCGCTGGCCCCCTCTCTGAATTTTAG
GATGTCATTAAAAAGATGAATCTA

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FIGURE 5242

MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNA
NASLVYSFLYKTIEVFCEYFKELEESIRDNFVIVYELLDLMDFGFPQTDSKILQEYITQOSNKLETGKSRVP
PTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLVFLSGMPELRLGLNDRVLFELTGR
SKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQ
FKKQSVANGVEISVPVPSDADSPRFKTSVGS AKYVPERNVVIWSIKSFPGGKEYLMRAHFGLP SVEKEEVEGRPP
IGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS

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FIGURE 5243

ATGGGGGACGAGCGGCCCCACTACTACGGGAAACACGGAAACGCCACAGAAGTATGATCCCACTTTCAAAGGACCC
ATTTACAATAGGGGCTGCACGGATATCATATGCTGTGTGTTCCCTGCTCCTGGCCATTGTGGGCTACGTGGCTGTA
GGCATCATAGCCTGGACTCATGGAGACCCCTCGAAAGGTGATCTACCCCACTGACAGCCGGGGCGAGTTCTGCGGG
CAGAAGGGCACAAAAACGAGAACAAACCCTATCTGTTTTATTTC AACATTGTGAAATGTGCCAGCCCCCTGGTT
CTGCTGGAATTCCAATGTCCCACTCCCCAGATCTGCGTGGA AAAATGCCCGACCGCTACCTCACGTACCTGAAT
GCTCGCAGCTCCCGGGACTTTGAGTACTATAAGCAGTTCTGTGTTCCCTGGCTTCAAGAACAATAAAGGAGTGGCT
GAGGTGCTTCAAGATGGTGACTGCCCTGCTGTCTCATCCCCAGCAAACCCTTGGCCCGGAGATGCTTCCCGCT
ATCCACGCCTACAAGGGTGTCTGTATGGTGGGCAATGAGACGACCTATGAGGATGGGCATGGCTCCCGGAAAAAC
ATCACAGACCTGGTGGAGGGCGCCAAGAAAGCCAATGGAGTCTTAGAGGCGCGGCAACTCGCCATGCGCATATTT
GAAGATTACACCGTCTCTTGGTACTGGATTATCATAGGCCTGGTCATTGCCATGGCGATGAGCCTCCTGTTTCATC
ATCCTGCTTCGCTTCCTGGCTGGTATTATGGTCTGGGTGATGATCATCATGGTGATTCTGGTGCTGGGCTACGGA
ATATTTCACTGCTACATGGAGTACTCCCGACTGCGTGGTGAGGCGGGCTCTGATGTCTCTTTGGTGGACCTCGGC
TTTCAGACGGATTTCCGGGTGTACCTGCACCTACGGCAGACCCTGGTTGGCCTTTATGATCATTCTGAGTATCCTT
GAAGTCATTATCATCTTGCTGCTCATCTTCTCCGGAAGAGAAATCTCATCGCGATTGCACTCATCAAAGAAGCC
AGCAGGGCTGTGGGATACGTCATGTGCTCCTTGCTCTACCCACTGGTCACCTTCTTCTTGCTGTGCCTCTGCATC
GCCTACTGGGCCAGCACTGCTGTCTTCTTGCTCCACTTCCAACGAAGCGGTCTATAAGATCTTTGATGACAGCCCC
TGCCCATTTACTGCGAAAACCTGCAACCCAGAGACCTTCCCCCTCCTCCAATGAGTCCCGCCAATGCCCAATGCC
CGTTGCCAGTTCGCCTTCTACGGTGGTGAGTCGGGCTACCACCGGGCCCTGCTGGGCCTGCAGATCTTCAATGCC
TTCATGTTCTTCTGGTTGGCCAACTTCGTGCTGGCGCTGGGCCAGGTCACGCTGGCCGGGGCCCTTTGCCTCCTAC
TACTGGGCCCTGCGCAAGCCGGACGACCTGCCGGCCTTCCCGCTCTTCTCTGCCTTTGGCCGGGGCGCTCAGGTAC
CACACAGGCTCCCTGGCCTTTGGCGCGCTCATCTGGCCATTGTGCAGATCATCCGTGTGATACTCGAGTACCTG
GATCAGCGGCTGAAAGCTGCAGAGAACAAGTTTGCCAAGTGCCCTCATGACCTGTCTCAAATGCTGCTTCTGGTGC
CTGGAGAAGTTCATCAAATTCCTTAATAGGAATGCCTACATCATGATTGCCATCTACGGCACCAATTTCTGCACC
TCGGCCAGGAATGCCTTCTTCTGCTCATGAGAAACATCATCAGAGTGGCTGTCCTGGATAAAGTTACTGACTTC
CTCTTCTGTTGGGCAAACCTTCTGATCGTTGGTAGTGTGGGGATCCTGGCTTTCTTCTTCAACCCACCGTATC
AGGATCGTGCAGGATACAGCACCACCCCTCAATTATTACTGGGTTCCCTATACTGACGGTGATCGTTGGCTCCTAC
TTGATTGCACACGGTTTCTTCAAGCTCTATGGCATGTGTGTGGACACGCTGTTCCCTCTGCTTCTTGGAGGACCTG
GAGAGGAATGACGGCTCGGCCGAGAGGCCCTTACTTCATGTCTTCCACCCCTCAAGAACTCTTGAACAAGACCAAC
AAGAAGGCAGCGGAGTCCTGA

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FIGURE 5244

GACCGGGGGCGAGCGGGCGGGCGGGCAGGCGCGCGCGGGGAGGTGCGGGAAACACGTGACCGGCTGAAGCCCCGC
CCCCTTTGACGCCGCGTTGCGCCTCGACGCAGGCCCAACCCAAATGGGAGGGAGGGGCGAAAAGAGATAAGGGGG
GGGCTGAGGGGGTGGGCGTGAGTTGCACGTGGTGCAAGCGGGAGTGTTTGCCTGCGTAGTCACGTGACTTCGGCA
CCTTTCCCTCCGCTTTTCGATAGGTTGCTCCATCATGTGACAATGGCGAATTTTCGCGGTTTCCCTTCGCCATCTGAC
AACTTTTGGCGCCTTCCCTTTGCGGTACTGGGAGTCCCTCCATCACGTGACGAGGGCACGCTCTGGTTTTTCGCTAA
GGCGTTTTTTGAGCGGCCATTACCACGTGATGCAAGGCAAGCGTCAGAGGCGGAGCCTCCCTACGGCTGCGACAT
TTTGGCGCTGCGCGGCCGCCATCTTACGCCCCGTCGCCCTGAGTACGTTAGCGGAAATGGCTCCGAGAGGCTTTGA
CGCATGTGTACCTTTTTAGTGGCGGTATCTCGGCCGGGGATTTTCGGGCTCCAGTGAGGTTGGCTATGCTCACCC
CATCTCCCTTGAGAGGCACAGAAGGTTAGAGATGTGTGCGAGGAACGGCCAGGTCCAGCGTCTCCTCGTTGCTGC
CCCTTGAGCCCGGGACCGGCCCAATGCGCGCCCCGGTTCTTGGGTTCTTTCGTCCCCGAGACCTGCCTTGGTGT
GGCGTCCCTGGGCCGTAGCTTCCGAAGGCTGCAGCCGACCTGGTGGGGTCTCTAGCCCCGCTTCCCTTCCCC
CATTGACAGATGGAGAACTGAGGCCCAGGCCAAAAATATCTCACTAGAGGGCTCACCGCCATTTCTTGAAAA
ATTGGGGCTGGGACTCAACGGACGCTCGTCCAGCAGCAGCGCGGAGCTCCGAAGTAAAGGCGCCCGTGACCGAGT
GCTTTGTCTTACAAGCGTGGTGTCTTGAATGCTTCCAGGCGCCTTATGAGGCCCCGATGTACAATCTGTGCT
TAACTAAACCCCACTGTCTTCCAGGTCAGGTTGGCCATCCGAGGCGTAGTTGCTAGGAAGGTTTGACAGATGT
CCGCTGTGTGATTACAGCGTTCCAGGATTTGGAGCAAGAAGAGCAAGGAAGGCCAGGCGCGGTGGCTCACGTTT
GTAATCCCAGCACTTTGGGAGGCCGAGGCGGGCGGATCACGAGGTCAGGAGTTCGAGACCAGCCTGGCCAGCATG
GTGAAACCCCGTCTCTACTAAAAATACAAAAGAAAATAGCCGGGTGTGGTGGCACATGCCTGTAGTCCACCTA
CTCCAGTCTGGGCGACAGAGCGAGACTCTGTCTCAGAAAAAAGAGCAAGGAGGTGTTGAAAATGGGTTTCC
TGGCTGGGCGTGGTGGCTCACGCTTGTAAATCCCAGCACTTTGGGAAGCTGAGGTGGGCGGATCACTTGAGGTCAG
GAGTTTGAGACCAGCCTGGCCAACATGGTGAAACACCGTCTCCACTAAAAATAGAAAAATTAAGTGGGTGTGGTG
GAGGGCGCCTGTAATCCCAGCTAATCAGGAAGCTGAGACAGGAGGATCGCTTGAACCCAGGAGGCGGAGGTTGCA
GTGAGCCGAGATTGCTCCATTGCACTCCAGCCTGGGCGATAGAGTGAGACTCAGCCTCAAAAAAAAAAAAAAAAAA
AAAATTCGCCAGGTGTGGTGGTGTGCGCCTATAATCCCAGCTACTCAGGAGGCAGAGGCACAAGAATGGCTTGAA
TCACTTGAACTGGGAGGCAGAGGTTACAATGAGCCGAGATGGCACCACTGCACCTCCAGCCTGGGCGACAGAGCG
AGACTCCGACTTCCCATCTTAAAAAAAAAAAAAAAAAAAAAAAAAAGAGTGTAAAGATGTGATTATGTGGCAGGGG
GTAAGGGTTAAAAAGAAAACAAGAACAAGTTTTCTCTGCTTAGCCAGCTTACTTCAAGGACAGTTATAACACTG
AAAAGTCGAGGCCAAAGGAATGGGCTCCAGACAGCCTCCTCCGAGCAAAGTTGAAAAGAAAAATTCCTTTACTG
TCTCTCCTTTTCTGAACATTAAATATGACTGTTTGCCAATGGTTGTATTTAGTAAGATTTGTAGACTCTGTTTT
TCTTTTGACACAGCTGCAAGGCCAACAGCTGTGCAAGCCACAAGTTATGCTAAGTCAGCAGTTATGCTATAGAT
TACATGACCTGTGACTGTATCATTAAGTCTTTTGTGTTTGTCTGTGTAAGTTTGCCTATAAAAACCACTCAGT
CTTTGTTCAATGGTCAGCTTTTCAGATACAAATCCACTGAGCCGGTGATACATAAATAAATCCTCCTGTTTCCC
GT

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FIGURE 5245

MAPLHSSLGDRARLRLPILKKKKKKKKCKDVIMWQGV RVKKKTRTSFPLLSQLTSRTVITLKSRGQRNGLQTAS
SGAKLKRKIPLLSLLF

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FIGURE 5246

GTTAGAGCAGAGGAGGTCCCAGATACCAAGTGGCGCCTCCCAGGAAAGGCTGGGAGAAGAGGTGGCCTGGAGTAC
CCCGAGATCCCAGCAGCGCACACAGTGGAGGGATGAGGATGGATGGGTCCCTAACCCCTGATTTTGATGGGATGTG
TTCATGTCCTATCTCCTCTCCTGGACACATTAAGGGGTGGGACAAGAAGAGACTCCTGTGAGATCAGCAGACCT
CGTGTTTAAGGAGAGAATGCCTGCCTGCAACACTCATGGAGAGGGACACTTCCTGGCCCCACCTGCTAAATACCT
CCAAACTCTGGGCAGGCGCCTGCATTCTCAACACAGGACTTCCCTTAACAGTTTCCGGATCAGTGACCACCACCA
CGTTCAGGTTTCTGAATGCAGACCCACCACGAGGGATGGATTCCACCCGCCCGCCCTGCTGCAGATACATGCGGC
ACAGCAGGCACGTGCCTGGAGAGAACAGCTCCTGAGCACAGCACCCTTGGAGCCCTCACCCCGCTCACGATCCTC
ACCAGTGCTGATGATGCCGTCTATGCTGCTGGCCTGAGACAGTATCCCAGCTACAACAGGACGACACCGGGTTCAG
GAATATGTGGCTATCACCTTGAGCACTGACAGTGGCCTTCCAGGCTAGTTGCCTTCCAAACGCAGGTAGCCGACC
TGCAGGAGGGCCTACAAACGGGCCCAGCAAGAGCTGGGCAACAGCTGGCTTGTGAAATGAGACACCTTGACCAAT
ATGCTTTGGGTGGACGGTCTCCTACATGTTTCACTGGAGGCCACCAGGAGCATCCATGAGCGGGGAAGGGGTCCAC
ACCCTTACATGGCAAGTTGATACGATGGGGTGCTTGGTGGATGGGCCATGGAGGTCCGTGAGCTGGAAGTGGGCA
CACGCCATCCCAGAGGGCTCAGGATGCCCCAGGAAGGAAAGAAGGGCAACAGACTACACGATTGGACGTGTGTGG
TTGACTGGGATGAAGTTGGAGGGAGGGGCAGGGCCTTGAGGGGATTGGTACTGATCCCAGGGAGGAAGTGTGG
GGCTTCATGAACTAGGATGAAAGGAGGCCCCTGAGCCATGACAAGGGGCACATCCAGGATTTCCGCCACCCTGAA
TTTAGTAGAGCTAGTAGGCCCTGGTCGTCACTCTGGGCAGGGATGCCGTCAGCCTTGAGGGTCGCCACCCACCTG
TGTGTTGCCCTCTGTCTTGGCAGGGAAACATACACCCCTTGTCTCACCACCAACCTTGCTTGTGTAGTCAGCAGG
GCTGGCCCTGCCCCAAGGACTCACTGCATGTACCCGGACCCCTAGGCCTGGCCTTTGCAGCATAGTTGGGAGCTT
CTGGATTCCATCTGCACCTGTGAGCCCCATGCTGGCTGTGCACTGCGCGGGCCTGAGACTGCTGGATACAATGTT
GGGCAACAACCTCAGCCAGCCTGATGGCAGCCTCAGAGGCTTACTCTAACCCATCCCAGAATAAATGGAGACTTCA
TGTGTT

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FIGURE 5247A

GACCGTGAGGCCGAGCCGGGAGCGGGCGTCTTGCCGAGGCCCGGGCGGGGAGCAACGGCTACAGACGCCGC
GGGGCCAGGTTCGTTGAGGGTCGGCGCGGGCGAGGAGCGCAGGGCGCTCGGGCCGGGGGCCGCCGGCGCCATGGG
CAACCGCGGGATGGAAGAGCTGATCCCGCTGGTCAACAACTGCAGGACGCCTTCAGCTCCATCGGCCAGAGCTG
CCACCTGGACCTGCCGAGATCGCTGTAGTGGGCGGCCAGAGCGCCGGCAAGAGCTCGGTGCTGGAGAAGTTCTGT
GGGCGGGGACTTCCTTCCCCGCGGTTTCAGGAATCGTCACCCGGCGGCCTCTCATTTCTGCAGCTCATTTCTCAAA
AACAGAACATGCCGAGTTTTTGCAGTCAAGTCCAAAAAGTTTACAGACTTTGATGAAGTCCGGCAGGAGATTGA
AGCAGAGACCGACAGGGTCACGGGGACCAACAAAGGCATCTCCCCAGTGCCCATCAACCTTCGAGTCTACTCGCC
ACACGTGTTGAACTTGACCCTCATCGACCTCCCCGGGTATCACCAAGGTGCCTGTGGGCGACCCAGCCTCCAGACAT
CGAGTACCAGATCAAGGACATGATCCTGCAGTTCATCAGCCGGGAGAGCAGCCTCATTCTGGCTGTACGCCCGC
CAACATGGACCTGGCCAACTCCGACGCCCTCAAGCTGGCCAAGGAAGTCGATCCCCAAGGCCTACGGACCATCGG
TGTCATCACCAGCTTGACCTGATGGACGAGGGCACCGACGCCAGGGACGTCTTGAGAAACAAGTTGCTCCCGTT
GAGAAGAGGGTACATTGGCGTGGTGAACCGCAGCCAGAAGGATATTGAGGGCAAGAAGGACATCCGTGCAGCACT
GGCAGCTGAGAGGAAGTTCTTCTCTCCCCACCCGGCCTACCGGCACATGGCCGACCGCATGGGCACGCCACATCT
GCAGAAGACGCTGAATCAGCAACTGACCAACCACATCCGGGAGTCGCTGCCGGCCCTACGTAGCAAACTACAGAG
CCAGCTGCTGTCCCTGGAGAAGGAGGTGGAGGAGTACAAGAACTTTTCGGCCCGACGACCCCCACCCGCAAAACCAA
AGCCCTGCTGCAGATGGTCCAGCAGTTTGGGGTGGATTTTGAGAAGAGGATCGAGGGCTCAGGAGATCAGGTGGA
CACTCTGGAGCTCTCCGGGGGCGCCCGAATCAATCGCATCTTCCACGAGCGGTTCCCATTTGAGCTGGTGAAGAT
GGAGTTTGACGAGAAGGACTTACGACGGGAGATCAGCTATGCCATTAAGAACATCCATGGAGTCAGGACCGGGCT
TTTACCCCGGACTTGGCATTTCGAGGCCATTGTGAAAAAGCAGGTTCGTCAGCTGAAAGAGCCCTGTCTGAAATG
TGTCGACCTGGTTATCCAGGAGCTAATCAATACAGTTAGGCAGTGTACCAGTAAGCTCAGTTCTTACCCCGGTT
GCGAGAGGAGACAGAGCGAATCGTCACCACTTACATCCGGGAACGGGAGGGGAGAACGAAGGACCAGATTCTTCT
GCTGATCGACATTGAGCAGTCTTACATCAACACGAACCATGAGGACTTCATCGGGTTTGCCAATGCCAGCAGAG
GAGCAGCAGCTGAACAAGAAGAGAGCCATCCCCAATCAGGGGGAGATCCTGGTGATCCGCAGGGGCTGGCTGAC
CATCAACAACATCAGCCTGATGAAAGCGGCTCCAAGGAGTACTGGTTTGTGCTGACTGCCGAGTCACTGTCTCTG
GTACAAGGATGAGGAGGAGAAAGAGAAGAAGTACATGCTGCCTCTGGACAACCTCAAGATCCGTGATGTGGAGAA
GGGCTTCATGTCCAACAAGCAGTCTTCGCCATCTTCAACACGGAGCAGAGAAACGCTCTACAAGGACCTGCGGCA
GATCGAGCTGGCCTGTGACTCCCAGGAAGACGTGGACAGCTGGAAGGCCTCGTTTCTCCGAGCTGGCCTTACCC
CGAGAAGGACCAGGCAGAAAACGAGGATGGGGCCAGGAGAACACCTTCTCCATGGACCCCCAATGGAGCGGCA
GGTGGAGACCAATTCGCAACCTGGTGGACTCATACGTGGCCATCATCAACAAGTCCATCCGCGACCTCATGCCAAA
GACCATCATGCACCTCATGATCAACAATACGAAGGCCTTCATCCACCAGAGCTGCTGGCCTACCTATACTCCTC
GGCAGACCAGAGCAGCCTCATGGAGGAGTGGGCTGACCAGGCACAGCGGGCGGGACGACATGCTGCGCATGTACCA
TGCCCTCAAGGAGGCGCTCAACATCATCGGTGACATCAGCACCAGCACTGTGTCCACGCCTGTACCCCCGCTGT
CGATGACACCTGGCTCCAGAGCGCCAGCAGCCACAGCCCCACTCCACAGCGCCGACCGGTGTCCAGCATAACCC
CCCTGGCCGGCCCCCAGCAGTGAGGGGCCCCACTCCAGGGCCCCCCTGATTCTGTTCCTGTGGGGGAGCAGC
CTCCTTCTCGGCGCCCCCAATCCCATCCCGGCTGGACCCAGAGCGTGTTCGCAACAGTGACCTCTTCCAGC
CCCGCTCAGATCCCATCTCGGCCAGTTCCGATCCCCCAGGGATTCCCCCAGGAGTGCCAGCAGAAGACCCCC
TGCTGCGCCAGCCGGCCCCACCAATTATCCGCCCAGCCGAGCCATCCCTGCTCGACTAGGCCTCGAGGGGGGCGTG
CTCTCGGGGGGCGCTCACGCACCCGCGGCGCAGGAGCTTCAGTGGTCTGGGGCCCTCCGCCGCCCTATGCTGGG
ACCAGGCTCCAGTGGGCGAGCCCTGGCCCTCTTCTTAACGCTGGCCCCGGTCCAGGGCGGGCCCTGTGCTGGC
TGGACACCGCACTGCGCAAAGGGGCGCTGGAGCTCCAGGCAGGGGGCGCTGGGGTGTGCACTTTGGGGGATGGA
GTCTCAGGGTGGCAGAGGGGGGACCAGAACCCTTGACACCATCCTGAATGAGGGGTCCAGCCTGGGGGGGACTCT
ACCAAGGTCTTCTTGGGCTGGGAAAGCCCATGTAGGGCAGGCCTTCTATAAGTGCGGGCACCAAGGGCGCCTACA
TCCCCAGGCCTTGCTGGGGTGCAGGGGTATATCAACTTCCCATTAGCAGGAGCTCCCCAGCGGCAAGCCTGGCCC
AGTGGGCTCGGTAGTGGCCAGCTGGCAGGCCTGAGGTGTACATAGTCCTTCCCGCCATATTAACACACAGCCT
GAGCCTGGCCAGCCTCGGCTGCCAGAGGTGCCCTTGTAGGCCCGGAGCCGTTGGCCCGGGCGGCCTTGCCCT
ATTCTCTCTCTCTCTCTCTCTGGGTCCCCCAGGGTGGCTGGGCTTGGGCTATGTGGGTGGTGGTGGCGGGGG
TCTTGGGGGCTCTCAGCTCCCGCCCATGCCCTCCCTGATGGGTGGGCCAGGGCGGCCTCTCTCTGAGGAGACCT
CACCACTCCTCGCTCAGTTTGACCACTGTAAGTGCTGCACTCTGTATTCTATTAATAAACTAAAATAAAGGGA

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FIGURE 5247B

AGACGCTGCTGGTG

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[illegible]

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FIGURE 5249

MAAAAAVGPAGGAGSAVPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDSAGIALYSHE
DVCVFKCSVSRETECSRVGKQSFIIITLGCNSVLIQFATPNDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYF
QFYGYLSQQQNMMDYVRTGTYQRAILQNHTDFKDKIVLDVGCSSGILSFFAAQAGARKIYAVEASTMAQHAEVL
VKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDE
QLYMEQFTKANFWYQPSFHGVDLSALRGAADVDEYFRQPVVDTFDIRILMAKSVKYTVNLFLEAKEGDLHRIEIPFK
FHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDI
SIVAQVDQTGSKSSNLLDLKNPFFRYTGTPSPPPGSHYTSPSENMWNTGSTYNLSSGMAVAGMPTAYDLSSVIA
SGSSVGHNLIPLANTGIVNHTHSRMGSIMSTGIVQGSSGAQSGGGGSTSAHYAVNSQFTMGGPAISMASPMSIP
TNTMHYGS

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FIGURE 5250

GGCACGAGGGGATGTTGCTGTCAGGTCTGAGTCGGTTGGAGTCTGACGGGTAGGCGAGACGCGCAGGCGCAGAGA
GCCCCAGCCACGCCGGCCAGGTGGCCTCAGCGAGGGATGCGGAGACGCCCCCTGAACGACCATGGCATCGGCCGA
CGAGCTGACCTTCCATGAATTTCGAGGAGGCCACTAATCTTCTGGCTGACACCCAGATGCAGCCACCACCAGCAG
AAGCGATCAGCTGACCCACACAAGGGCACGTGGCTGTGGCCGTGGGCTCAGGTGGCAGCTATGGAGCCGAGGATGA
GGTGGAGGAGGAGAGTGACAAGGCCGCGCTCCTGCAGGAGCAGCAGCAGCAGCAGCCGGGATTCTGGACCTT
CAGCTACTATCAGAGCTTCTTTGACGTGGACACCTCACAGGTCCTGGACCGGATCAAAGGCTCACTGCTGCCCCG
GCCTGGCCACAACCTTTGTGCGGCACCATCTGCGGAATCGGCCGGATCTGTATGGCCCCCTTCTGGATCTGTGCCAC
GTTGGCCTTTGTCTGGCCGTCACCTGGCAACCTGACGCTGGTGCTGGCCAGAGGAGGGACCCCTCCATCCACTA
CAGCCCCCAGTTCACACAAGGTGACCGTGGCAGGCATCAGCATCTACTGCTATGCGTGGCTGGTGCCCCCTGGCCCT
GTGGGGCTTCTGCGGTGGCGCAAGGGTGTCCAGGAGCGCATGGGGCCCTACACCTTCTGGAGACTGTGTGCAT
CTACGGCTACTCCCTCTTTGTCTTCATCCCCATGGTGGTCCCTGTGGCTCATCCCTGTGCCTTGGCTGCAGTGGCT
CTTTGGGGCGCTGGCCCTGGGCCTGTGAGCCGCCGGGCTGGTATTACCCCTCTGGCCCGTGGTCCGTGAGGACAC
CAGGCTGGTGGCCACAGTGCTGCTGTCCGTGGTCGTGCTGCTCCACGCCCTCCTGGCCATGGGCTGTAAGTTGTA
CTTCTTCCAGTCGCTGCCTCCGGAGAACGTGGCTCCTCCTCCCCAAATCACATCTCTGCCCTCAAACATCGCGCT
GTCCCTACCTTGCCGCGAGTCCCTGGCCCCCTCCTAGGAAAGGCCCGGGTCCCACAGGCAACACCTAAGTGGACCA
ACCCCTCTGCCTGTCTGCCCCCAGACGATGACTGAAGGCTCCTTTGACACCTTGAGATGATTCTGCTACTTTC
CAGACTTTTCTTACAAAGCAAACACTTTTATTTTCTATGCAAAGGTGATTCAGAGAATTTATATAAAGGCGGGCG
AGGGGCAGCCGAGCAGGGAGCTTTGGGACAGGGCTGGGGCCCCCATATCCCCCGGGCCACCTGCTTTCCCTCC
TATGGCTCCCCTGGAACAGGAGGGAGAGCCAAGGGGCGGCCCAGCCTGGACAGCGCCCGCTCCTGCCTGGGTGC
ACACACGGCGGGCCTGAGCTCCAGCATCTGAGTTTGGGGGTATGAGAAACAGGGGAGCAGAAGGAGAAGAAACT
GCCTGTGCTGCAA

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FIGURE 5251

MASADELTFHEFEETNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQP
GFWTFSYYSFFDSDTSQVLDRIKGSLLPRPGHNFVRHHLNRNRPDLYGPFWICATLAFVLAVTGNTLVLAQRD
PSIHYSPPQFHKVTVAGISYCYAWLVPLALWGFLRWKGVQERMGPYTFLETVCYGYSLFVFIIPMVVLWLIPVP
WLQWLFALALGLSAGLVFTLWPFVREDTRLVATVLLSVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLP
SNIALSPTLPQSLAPS

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FIGURE 5252

GAAGAGACTCCCGGGCTCTTAACGTCGGGTATCAGGAGTTTCTTCCCGGAGCAAGGACCCCCAAGACGGAAGAGG
ATGGCCGCGGCGGGCTCTGAGGAGATTTTGGTCCCGGCGCCGCGCAGAGGCGGGCGACGCGGTAGTGCGGAAGCCG
GGAGTGTGGGCGCGGGCTGGGGTCTTGGGCCCCGCGCGCTGCTCCGGGACTACGCCGAGGCCTGCAGGGACGCTTCG
GCGGAGGCTAGGGCCCCGGCGGGGCGCGCCGCTGTGTATGTGGGTCTGCTGGGCGGCGCGGCGGCCTGCTTCACG
CTGGCGCCCAGCGAGGGTGCCTTCGAGGAGGCGCTGCTGGAGGCGTCGGGGACCCCTCCTGCTGCTGGCGCCGGCC
ACCCGCAACGCGAGTCCGAAGCCTTCGTGCAGAGGCTGCTCTGGCTGCGGGGCCGTGGCCGCCTGCGCTACGTC
AACCTGGGGCTCTGCTCGCTGGTGTACGAGGCGCCCTTCGACGCCCAGGCCAGCCTCTACCAGGCGCGTTGCCGC
TACCTGCAGCCCCGCTGGACCGACTTCCCCGGCCGGGTCTTGGACGTGGGCTTCGTGGGTGCTGGTGGGTGCTG
GGGGCCTGGATGCGCGACTGCGACATCAACGACGACGAATTCCTGCACCTGCCGGCGCATTTGCGGGTGGTCGGG
CCCCAGCAGCTGCATTCCGAGACCAACGAGCGGCTCTTCGATGAGAAGTACAAGCCTGTCGTGCTCACCAGCGAT
CAGGTGGACCAGGCGCTGTGGGAGGAGCAGGTCTTGCGAAGGAGAAGAAGGACAGGCTCGCCCTGAGCCAGGCC
CACTCGCTGGTGCAGGCGGAGGCCCGAGATGAAACCCTGAGGCCCCCGAGTCCTGGCAAACCTGCTTGCCTGGGG
TGGTGCAGTTCTGAGTGTGCCTCACCTGCAGAACAGCTGAGACAGATGATGTGCAAAGTGTTTTCTCACTGGATT
TGCACAAGTTTGGGGAGCCTTTCTGCCCCCGTCTTTGTTCTTTATTAGCTGAAGCTAATTCAGAGCCACCTGGG
TCCGGGAGTTGGGGACAGCAGAACGACTTGACACATGTTTCATCACTGGCAGAGCTGGTCATGAGCCTTTTATATA
AGCCTTTTTTCATCGGGCCTCAGAGGCCCTCCTTAAGGAGGTACCACATTGGTCAGCTGACTTGCAAACCTCTTCTA
AGGCCACTTAGATTTTCTTTTCAAGTTTGGGTGTGGCCTGGCATGGTGATGTCTGTAATCCCAGCAGTTTGCA
AACTGAGGCAAGAGAATCGCTTGAGGCCAGGAGTTTGAGGCCAGCTAGAGTGACATAGCAAGACTCCGATGCTAC
AAAAAAGAATAATAATAGTAATTAATAAAATAAAATTTGAGCTG

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FIGURE 5253

MAAAALRRFWSRRRAEAGDAVVAKPGVWARLGSWARALLRDYAEACRDASAEARARPGRAAVYVGLLGAAACFT
LAPSEGAFEEALLEASGTLLLLAPATRNRESEAFVQRLLWLRGRGRLRYVNLGLCSLVYEAPFDAQASLYQARCR
YLQPRWTDFFGRVLDVGFVGRWWVLGAWMRDCDINDDEFLHLPAPHLRVVGPQQLHSETNERLFDEKYKPVVLTDD
QVDQALWEEQVLQKEKKDRLALSQAHSVLQAEAPR

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FIGURE 5254A

CGCCGCGGTGCTGAGGGGGAGGGGAGCCGGCGAGCGCGCGCGCAGCGGGGGCGCGGGTGGCGCGCGTGTGTGTGA
AGGGGGGGCGGTGGCCGAGGCGGGCGGGCGCGCGCGCAGGCTTCCCCCTCGTTTGGCGGGCGGCGGGCGGCTTCTTT
GTTTCGTGAAGAGAAGCGAGACGCCCATTCTGCCCCCGGCCCGCGCGGAGGGGGCGGGGGAGGCGCCGGGAAGTC
GACGGCGCCGGCGGCTCCTGCAGGAGGCCACTGTCTGCAGCTCCCGTGAAGATGTCCACTCCAGACCCACCCCTG
GGCGGAACCTCCTCGGCCAGGTCTTCCCGGGGCCCTGGCCCTTCCCTGGAGCCATGCTGGGCCCTAGCCCGGGT
CCCTCGCCGGGCTCCGCCACAGCATGATGGGGCCAGCCAGGGCCGCCCTCAGCAGGACACCCCATCCCCACC
CAGGGGCTGGAGGGTACCCTCAGGACAACATGCACCAGATGCACAAGCCCATGGAGTCCAATGCATGAGAAGGGC
ATGTGCGGACGACCCGCGCTACAACCAGATGAAAGGAATGGGGATGCGGTGAGGGGGCCATGCTGGGATGGGGCCC
CCGCCAGCCCCATGGACCAGCACTCCCAAGGTTACCCCTCGCCCCCTGGGTGGCTCTGAGCATGCCTCTAGTCCA
GTTCCAGCCAGTGGCCCCGTCTTCGGGGCCCCAGATGTCTTCGGGGCCAGGAGGTGCCCCGTGGATGGTGTGAC
CCCCAGGCCCTTGGGGCAGCAGAACCAGGGGCCCAACCCATTTAACCAGAACCAGCTGCACCAGCTCAGAGCTCAG
ATCATGGCCTACAAGATGCTGGCCAGGGGGCAGCCCCCTCCCCGACCACCTGCAGATGGCGGTGCAGGGCAAGCGG
CCGATGCCCCGGGATGCAGCAGCAGATGCCAACGCTACCTCCACCCTCGGTGTCCGCAACAGGACCCGGCCCTGGC
CCTGGCCCTGGCCCCGGCCCCGGGTCCCGGCCCGGCACCTCCAAATTACAGCAGGCCTCATGGTATGGGAGGGCCC
AACATGCCTCCCCAGGACCCCTCGGGCGTGCCCCCGGGATGCCAGGCCAGCCTCCTGGAGGGCCTCCCAAGCCC
TGGCCTGAAGGACCCATGGCGAATGCTGCTGCCCCACGAGCACCCCTCAGAAGCTGATTCCCCCGCAGCCAACG
GGCCGCCCTTCCCCCGCGCCCCCTGCCGTCCACCCGCGCCTCGCCCGTGATGCCACCGCAGACCCAGTCCCCC
GGGCAGCCGGCCAGCCCGCGCCCATGCTGCCACTGCACCAGAAGCAGAGCCGCATCACCCCATCCAGAAGCCG
CGGGGCTCGACCCCTGTGGAGATCCTGCAGGAGCGCGAGTACAGGCTGCAGGCTCGCATCGCACACCGAATTAG
GAACCTGAAAACCTTCCCGGGTCCCTGGCCGGGGATTTCGAACCAAGCGACCATTGAGCTCAAGGCCCTCAGG
CTGCTGAACCTCCAGAGGACGCTGCGCCAGGAGGTGGTGGTGTGTCATGCGGAGGGACACAGCGCTGGAGACAGCC
CTCAATGCTAAGGCCTACAAGCGCAGCAAGCGCCAGTCCCTGCGCGAGGCCCGCATCACTGAGAAGCTGGAGAAG
CAGCAGAAGATCGAGCAGGAGCGCAAGCGCCGCGCAGAACACAGGAATACCTCAATAGCATTTCTCCAGCATGCC
AAGGATTTCAAGGAATATCACAGATCCGTCAAGGCAAAAATCCAGAAGCTGACCAAGGAGTGGCCAGTACCAT
GCCAACACGGAGCGGGAGCAGAAGAAAGAGAACGAGCGGATCGAGAAGGAGCGCATGCGGAGGCTCATGGCTGAA
GATGAGGAGGGGTACCGCAAGCTCATCGACCAGAAGAAGGACAAGCGCCTGGCCTACCTCTTGAGCAGACAGAC
GAGTACGTGGCTAACCTCACGGAGCTGGTGCGGCAGCACAAGGCTGCCAGGTGCCAAGGAGAAAAAGAAGAAA
AAGAAAAAGAAGAAGGCAGAAAATGCAGAAGGACAGACGCTGCCATTGGGCCGGATGGCGAGCCTCTGGACGAG
ACCAGCCAGATGAGCGACCTCCCGGTGAAGGTGATCCACGTGGAGAGTGGGAAGATCCTCACAGGCACAGATGCC
CCCAAAGCCGGGCAGCTGGAGGCCTGGCTCGAGATGAACCCGGGGTATGAAGTAGCTCCGAGGTCTGATAGTGAA
GAAAGTGGCTCAGAAGAAGAGGAAGAGGAGGAGGAAGAGCAGCCGAGGCAGCACAGCCTCCACCCCTGCCC
GTGGAGGAGAAGAAGAAGATTCCAGATCCAGACAGCGATGACGTCTCTGAGGTGGACGCGCGGCACATCATTGAG
AATGCCAAGCAAGATGTGATGATGAATATGGCGTGTCCAGGCCCTTGACGTGGCCTGCAGTCTACTATGCC
GTGGCCCATGCTGTCACTGAGAGAGTGGACAAGCAGTCAGCGCTTATGGTCAATGGTGTCTCAAACAGTACCAG
ATCAAAGGTTTGGAGTGGCTGGTGTCCCTGTACAACAACAACCTGAACGGCATCCTGGCCGACGAGATGGGCCTG
GGGAAGACCATCCAGACCATCGCGCTCATCAGTACCTCATGGAGCACAAACGCATCAATGGGCCCTTCTCATC
ATCGTGCTCTCTCAACGCTGTCCAACCTGGGCGTACGAGTTTGACAAGTGGGCCCCCTCCGTGGTGAAGGTGTCT
TACAAGGGATCCCCAGCAGCAAGACGGGCCTTTGTCCCCAGCTCCGGAGTGGGAAGTTCAACGTCTTGCTGACG
ACGTACGAGTACATCATCAAAGACAAGCACAATCCTCGCCAAGATCCGTTGGAAGTACATGATTGTGGACGAAGGT
CACCGCATGAAGAACCACCACTGCAAGCTGACGCAGGTGCTCAACACGCACTATGTGGCACCCCGCCGCTGCTG
CTGACGGGCACACCGCTGCAGAACAAGCTTCCCGAGCTCTGGGCGCTGCTCAACTTCTGCTGCCCCACCATCTTC
AAGAGCTGCAGCACCTTCGAGCAGTGGTTTAACGCACCCCTTTGCCATGACCGGGGAAAAGGTGGACCTGAATGAG
GAGGAAACCATTTCTATCATCCGGCGTCTCCACAAGTGCTGCGGCCCTTCTTGCTCCGACGACTCAAGAAGGAA
GTGAGGCCCAGTTGCCCGAAAAGGTGGAGTACGTATCAAGTGCGACATGTCTGCGCTGCAGCGAGTGTCTTAC
CGCCACATGCAGGCCAAGGGCGTGTGCTGACTGATGGCTCCGAGAAGGACAAGAAGGGCAAAGGCGGCACCAAG
ACCCTGATGAACACCATCATGCAGCTGCGGAAGATCTGCAACCACCCCTACATGTTCCAGCACATCGAGGAGTCC
TTTTCCGAGCACTTGGGGTTCACTGGCGGCATTGTCCAAGGGCTGGACCTGTACCGAGCCTCGGGTAAATTTGAG
CTTCTTGATAGAATTCTTCCCAAACCTCCGAGCAACCAACCACAAAGTGCTGCTGTTCTGCCAAATGACCTCCCTC

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FIGURE 5254B

ATGACCATCATGGAAGATTACTTTGCGTATCGCGGCTTTAAATACCTCAGGCTTGATGGAACCACGAAGGCGGAG
GACCGGGGCATGCTGCTGAAAACCTTCAACGAGCCCGGCTCTGAGTACTTCATCTTCCTGCTCAGCACCCGGGCT
GGGGGGCTCGGCCTGAACCTCCAGTCGGCAGACACTGTGATCATTTTTGACAGCGACTGGAATCCTCACCAGGAC
CTGCAAGCGCAGGACCGAGCCACCGCATCGGGCAGCAGAACGAGGTGCGTGTGCTCCGCCCTGACACCGTCAAC
AGCGTGGAGGAGAAGATCCTAGCTGCAGCCAAGTACAAGCTCAACGTGGACCAGAAGGTGATCCAGGCCGGCATG
TTCGACCAGAAGTCTCCAGCCATGAGCGGCGCGCCTTCCTGCAGGCCATCCTGGAGCACGAGGAGCAGGATGAG
AGCAGACACTGCAGCACGGGCAGCGGCAGTGCCAGCTTCGCCCACACTGCCCTCCGCCAGCGGGCGTCAACCCC
GACTTGGAGGAGCCACCTCTAAAGGAGGAAGACGAGGTGCCGACGACGAGACCGTCAACCAGATGATCGCCCCG
CACGAGGAGGAGTTTGATCTGTTTCATGCGCATGGACCTGGACCGCAGGCGCGAGGAGGCCGCAACCCCAAGCGG
AAGCCGCGCCTCATGGAGGAGGACGAGCTCCCCTCGTGGATCATCAAGGACGACGCGGAGGTGGAGCGGCTGACC
TGTGAGGAGGAGGAGGAGAAGATGTTCCGGCCGTGGCTCCCGCCACCGCAAGGAGGTGGACTACAGCGACTCACTG
ACGGAGAAGCAGTGGCTCAAGGCCATCGAGGAGGGCAGCTGGAGGAGATCGAAGAGGAGGTCCGGCAGAAAGAAA
TCATCACGGAAGCGCAAGCGAGACAGCGACGCCGGCTCCTCCACCCGACCACCAGCACCCGCAGCCGCGACAAG
GACGACGAGAGCAAGAAGCAGAAGAAGCGCGGGCGGCCGCTGCCGAGAACTCTCCCCTAACCCACCCAACTC
ACCAAGAAGATGAAGAAGATTGTGGATGCCGTGATCAAGTACAAGGACAGCAGCAGTGGACGTCAGCTCAGCGAG
GTCTTCATCCAGCTGCCCTCGCGAAAGGAGCTGCCCGAGTACTACGAGCTCATCCGCAAGCCCGTGGACTTCAAG
AAGATAAAGGAGCGCATTTCGCAACCACAAGTACCGCAGCCTCAACGACCTAGAGAAGGACGTCATGCTCCTGTGC
CAGAACGCACAGACCTTCAACCTGGAGGGCTCCCTGATCTATGAAGACTCCATCGTCTTGACGTCGGTCTTCACC
AGCGTGCAGGAG
GAAGGCTCCGAATCCGAATCTCGGTCCGTCAAAGTGAAGATCAAGCTTGCCCGGAAGGAGAAGGCACAGGACCGG
CTGAAGGGCGGCCGGCGGCCGAGCCGAGGGTCCCGAGCCAAGCCGGTCTGTAGTGACGATGACAGTGAGGAG
GAACAAGAG
CCTCGTTCCAGAGCTGAGATGGCATAGGCCTTAGCAGTAACGGGTAGCAGCAGATGTAGTTTCAGACTTGGAGTA
AAACTGTATAAACAAGAAATCTTCCATATTTATACAGCAGAGAAGCTGTAGGACTGTTTGACTGGCCCTGTC
CTGGCATCAGTAGCATCTGTAAACAGCATTAAGTGTCTTAAAGAGAGAGAGAGAGAATTCCGAATTGGGGAACACA
CGATACCTGTTTTTCTTTCCGTTGCTGGCAGTACTGTTGCGCCGAGTTTGGAGTCACTGTAGTTAAGTGTGGA
TGCATGTGCGTCACCGTCCACTCCTCCTACTGTATTTATTGGACAGGTCAGACTCGCCGGGGGCCCGCGAGGG
TATGTCAGTGTCACTGGATGTCAAACAGTAATAAAATTAAACCAACAACAAAACGCA

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FIGURE 5255

MSTPDPPLGGTPRPGSPGPGSPGAMLGPSGPGSPGSAHSMMPSPGPPSAGHP IPTQGFGGYPQDNMHQMHKP
MESMHEKMSDDPRYNQMKGMGMRSGGHAGMGPPSPMDQHSQGYPSPLGGSEHASSPVASGPPSSGPQMSSSGPG
GAPLDGADPQALGQQNRGPTPFNQNLHQLRAQIMAYKMLARGQPLPDHLQMAVQGRPMFPMQQQMP TLPPPSV
SATGPGPGPGPGPGPGPPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKWPPEGPMANAAAPTSTPQ
KLIPPQPTGRPSAPPAPVPPAASPVMPPTQSPGQPAQFAPMVPLHQKQSRITP IQKPRGLDPVEILQEREYRLQ
ARIAHRIQELENLPGLAGDLRTKATIELKALRLNLFQRQLRQEVVCMRRDTALETALNAKAYKRSKRQSLREA
RITEKLEKQQKIEQERKRRQKHQEYLSILQHAKDFKEYHRSVTGKIQKLTAVATYHANTEREQKKENERIEKE
RMRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAQVAKEKKKKKKKKKAENAEQTPAIG
PDGEPLDETSQMSDLPVKVIHVESGKILTGTDAKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQ
AAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDEYGVSQLARGLSYAVAHAVTERVDKQSALMV
NGVLKQYQIKGLEWLVS LYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKW
APSVVKVSYKGS PAARRAFVQLRSGKFNVLLTTYEYI IKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTH
YVAPRRLLLTGTPLQNKLP ELWALLNLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPF
LLRRLKKEVEAQLPEKVEYVIKCDMSALQVRVLRHMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPY
MFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRIPLKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLR
LDGTTKAEDRGMLLKT FNPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQONEVR
VLRRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILHEEQDESRHCSTGSGSASFAHTA
PPPAGVNPDL EEPPLKEEDEVDPDET VNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKD
DAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSSRKRKRDSDAGSSTPT
TSTRSRDKDDESKKQKKRGRPPAEKLSNPPNLTKKMKKIVDAVIKYKDSSSGRQLSEVFIQLPSRKELPEYYEL
IRKPVDFFKKIKERIRNHKYRSLNDEKDVMLLCQNAQTFNLEGLIYEDSIVLQSVFTSVRQKIEKEDDSEGEES
EEEEEEEEEGSESESRSVKVKIKLGRKEKAQDRKLGRRRPSRGSRAKPVVSDDDSEEEQEEDRSGSGSEED

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FIGURE 5256A

GCCCCGAGTGCAATCGCGGGAAGCCAGGGTTTCCAGCTAGGACACAGCAGGTCGTGATCCGGGTCGGGACACTGC
CTGGCAGAGGCTGCGAGCATGGGGCCCTGGGGCTGGAAATTGCGCTGGACCGTCGCTTGTCTCTCGCCGCGGCG
GGGACTGCAGTGGGCGACAGATGCGAAAGAAACGAGTTCCAGTGCCAAGACGGGAAATGCATCTCCTACAAGTGG
GTCTGCGATGGCAGCGCTGAGTGCCAGGATGGCTCTGATGAGTCCCAGGAGACGTGCTTGTCTGTACCTGCAAA
TCCGGGGACTTCAGCTGTGGGGGCGGTGTCAACCGCTGCATTCTCAGTTCTGGAGGTGCGATGGCCAAGTGGAC
TGCGACAACGGCTCAGACGAGCAAGGCTGTCCCCCAAGACGTGCTCCCAGGACGAGTTTCGCTGCCACGATGGG
AAGTGCACTCTCTCGGCAGTTTCGTCTGTGACTCAGACCGGGACTGCTTGGACGGCTCAGACGAGGCCTCTTGCCCG
GTGCTCACCTGTGGTCCCGCCAGCTTCCAGTGCAACAGCTCCACCTGCATCCCCAGCTGTGGGCCTGCGACAAC
GACCCCGACTGCGAAGATGGCTCGGATGAGTGGCCGACGCGCTGTAGGGGTCTTTACGTGTTCCAAGGGGACAGT
AGCCCTGCTCGGCCCTTCGAGTTCCACTGCCTAAGTGGCGAGTGATCCACTCCAGCTGGCGCTGTGATGGTGGC
CCCGACTGCAAGGACAAATCTGACGAGGAAAAGTGCCTGTGGCCACCTGTGCGCTGACGAATTCAGTGCTCT
GATGGAACTGCATCCATGGCAGCCGGCAGTGTGACCGGGAATATGACTGCAAGGACATGAGCGATGAAGTTGGC
TGCGTTAATGTGACACTCTGCGAGGGACCCAACAAGTTCAAGTGTACAGCGGCGAATGCATCACCTGGACAAA
GTCTGCAACATGGCTAGAGACTGCCGGGACTGGTCAGATGAACCCATCAAAGAGTGGGGACCAAGAAATGCTTG
GACAACAACGGCGGCTGTTCCACGTCTGCAATGACCTTAAGATCGGCTACGAGTGCCTGTGCCCCGACGGCTTC
CAGCTGGTGGCCAGCGAAGATGCGAAGATATCGATGAGTGTGAGGATCCCGACACCTGCAGCCAGCTCTGCGTG
AACCTGGAGGGTGGCTACAAGTGCCAGTGTGAGGAAGGCTTCCAGCTGGACCCCAACGAGGCTGCAAGGCT
GTGGGCTCCATCGCCTACCTCTTCTTCCAAACCGGCACGAGGTGAGGAAGATGACGCTGGACCGGAGCGAGTAC
ACCAGCCTCATCCCCAACCTGAGGAACGTGGTCTGCTGTGACACGGAGGTGGCCAGCAATAGAATCTACTGGTCT
GACCTGTCCCAGAGAATGATCTGCAGCACCCAGCTTGACAGAGCCACGGCGTCTCTTCTATGACACCGTCATC
AGCAGAGACATCCAGGCCCCGACGGGCTGGCTGTGGACTGGATCCACAGCAACATCTACTGGACCGACTCTGTC
CTGGGCACTGTCTCTGTTGCGGATACCAAGGGCGTGAAGAGGAAAACGTTATTAGGGGAGAACGGCTCCAAGCCA
AGGGCCATCGTGGTGGATCCTGTTCTATGGCTTCTATGACTGGACTGACTGGGGAACCTCCCGCCAAGATCAAGAAA
GGGGCCCTGAATGGTGTGGACATCTACTCGCTGGTGAAGTGAACATTCAGTGGCCCAATGGCATCACCTTAGAT
CTCTCTAGTGGCCGCTCTACTGGGTTGACTCCAAACTTCACTCCATCTCAAGCATCGATGTCAACGGGGGCAAC
CGGAAGACCATCTTGGAGGATGAAAAGAGGCTGGCCACCCCTTCTCCTTGGCCGTCTTTGAGGACAAAGTATTT
TGGACAGATATCATCAACGAAGCCATTTTCAAGTGCCAACCGCCTCACAGGTTCCGATGTCAACTTGTGGCTGAA
AACCTACTGTCCCAGAGGATATGGTTCTCTTCCACAACCTCACCCAGCCAAGAGGAGTGAACGGTGTGAGAGG
ACCACCTGAGCAATGGCGGCTGCCAGTATCTGTGCTTCCCTGCCCCGAGATCAACCCCACTCGCCCAAGTTT
ACCTGCGCCTGCCCCGACGGCATGCTGCTGGCCAGGGACATGAGGAGCTGCCTCACAGAGGCTGAGGCTGCAGTG
GCCACCCAGGAGACATCCACCGTCAGGCTAAAGGTGAGTCCACAGCCGTAAGGACACAGCACACAACCCCGA
CCTGTTCCCGACACCTCCCGGCTGCCTGGGGCCACCCCTGGGCTCACACGGTGGAGATAGTGACAATGTCTCAC
CAAGCTCTGGGCGACGTTGCTGGCAGAGGAAATGAGAAGAAGCCAGTAGCGTGAGGGCTCTGTCCATTGTCTC
CCCATCGTGCTCCTCGTCTTCTTTGCTGGGGTCTTCTTCTATGGAAGAACTGGCGGCTTAAGAACATCAAC
AGCATCAACTTTGACAACCCGCTCTATCAGAAGACCACAGAGGATGAGGTCCACATTTGCCACAACCCAGGACGGC
TACAGTACCCCTCGAGACAGATGGTCAGTCTGGAGGATGACGTGGCGTGAACATCTGCCTGGAGTCCCGTCCCT
GCCAGAACCCTTCTGAGACCTCGCCGGCCTTGTCTTTATTCAAAGACAGAGAAGACCAAAGCATTGCCTGCCAG
AGCTTTGTTTTATATATTTATTCTCTGGGAGGCAGAACAGGCTTCGGACAGTGCCCATGCAATGGCTTGGGTTG
GGATTTTGGTTTCTTCTCTTCTCGTGAAGGATAAGAGAAAACAGGCCCGGGGGGACCAGGATGACACCTCCATTT
CTCTCCAGGAAGTTTGTAGTTTCTCTCCACCGTGACACAATCCTCAAACATGGAAGATGAAAGGGGAGGGATGT
CAGGCCAGAGAAGCAAGTGGCTTTCAACACACAACAGCAGATGGCACCAACGGGACCCCTGGCCCTGCCTCAT
CCACCAATCTCTAAGCCAAACCCCTAAACTCAGGAGTCAACGTGTTTACCTCTTCTATGCAAGCCTTGCTAGACA
GCCAGGTTAGCCTTTGCCCTGTACCCCCGAATCATGACCCACCCAGTGTCTTTCGAGGTGGGTTTGTACCTTCC
TTAAGCCAGGAAAGGGATTCTATGGCGTCGGAATGATCTGGCTGAATCCGTGGTGGCACCGAGACCAAACCTCATT
CACCAAATGATGCCACTTCCAGAGGCAGAGCCTGAGTCACTGGTCAACCTTAATATTTTATTAAGTGCCTGAGAC
ACCCGTTTACCTTGGCCGTGAGGACACGTGGCCTGCACCCAGGTGTGGCTGTGAGGACACCGCCTGGTGGCCAT
CCTCCGACCCCTACCACTTCCATTCCCGTGGTCTCCTTGCACTTTCTCAGTTTCAGAGTTGTACACTGTGTACA
TTTGGCATTGTGTTATTATTTTGCAGTGTCTTCTGTCGTGTGTGTTGGGATGGGATCCAGGCCAGGGAAAGCC

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FIGURE 5256B

CGTGTC AATGAATGCCGGGGACAGAGAGGGG CAGGTTGACCGGGACTTCAAAGCCGTGATCGTGAATATCGAGAA
CTGCCATTGTCTGCTTTTATGTCCGCCACCTAGTGCTTCCACTTCTATGCAAATGCCTCCAAGCCATTCACTTCC
CCAATCTTGTCTGTTGATGGGTATGTGTTTAAAACATGCACGGTGAGGCCGGGCGCAGTGGCTCACGCCTGTAATC
CCAGCACTTTGGGAGGCCGAGGCGGGTGGATCATGAGGT CAGGAGATCGAGACCATCCTGGCTAACACGTGAAAC
CCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCACCTGTAGTCCCAGCTACTCGGGAGGC
TGAGGCAGGAGAATGGTGTGAACCCGGGAAGCGGAGCTTG CAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAGT
CTGGCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAAAAAAAAAACAAAAAAAAACCATGCATGGTGCATCAGCAG
CCCATGGCCTCTGGCCAGGCATGGCGAGGCTGAGGTGGGAGGATGGTTTGAGCTCAGGCATTTGAGGCTGTCGTG
AGCTATGATTATGCCACTGCTTTCCAGCCTGGGCAACATAGTAAGACCCCATCTCTTAAAAAATGAATTTGGCCA
GACACAGGTGCCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGCTGGATCACTTGAGTTCAGGAGTTGGAG
ACCAGGCCTGAGCAACAAAGCGAGATCCCATCTCTACAAAAACCAAAAAGTTAAAAATCAGCTGGGTACGGTGGC
ACGTGCCTGTGATCCCAGCTACTTTGGGAGGCTGAGGCAGGAGGATCGCCTGAGCCCAGGAGGTGGAGGTTGCAGT
GAGCCATGATCGAGCCACTGCACTCCAGCCTGGGCAACAGATGAAGACCCTATTTAGAAATACAACTATAAAAA
AATAAATAAATCCTCCAGTCTGGATCGTTTGACGGGACTTCAGGTTCTTTCTGAAATCGCCGTGTTACTGTTGCA
CTGATGTCCGGAGAGACAGTGACAGCCTCCGT CAGACTCCCGCGTGAAGATGTCACAAGGGATTGGCAATTGTCC
CCAGGGACAAAACACTGTGTCCCCCCCAGTGCAGGGAACCGTGATAAGCCTTTCTGGTTTCGGAGCACGTAAATG
CGTCCCTGTACAGATAGTGGGGATTTTTTGTATGTTTGCACTTTGTATATTGGTTGAACTGTTATCACTTATA
TATATATATATACACACATATATATAAAATCTATTTATTTTGC AAACCCTGGTTGCTGTATTTGTTTCAGTGACT
ATTCTCGGGCCCTGTGTAGGGGTTATTGCCTCTGAAATGCCTCTTCTTTATGTACAAAGATTATTTGCACGAA
CTGGACTGTGTGCAACGCTTTTTGGGAGAATGATGTCCCGTTGTATGTATGAGTGGCTTCTGGGAGATGGGTGT
CACTTTTTAAACCACTGTATAGAAGGTTTTTGTAGCCTGAATGTCTTACTGTGATCAATTAAATTTCTTAAATG

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FIGURE 5257

AGTCTGCGCGGCGCGGCCAGGCCCGGCCGACCGCGTCTCGGTCTTCGCGTCTGCCAGCCTGGCTGGCAGTCCGTC
TGTCCATCCCGCCGCGCGGGGCGAGTCTAGGCGGAGCGGGGGCTCAGGCGGCGGCGGCCCTCGACGCGAGTGAGTG
TCGTGGTTGGGGTGCTGGACCCAGAGTGCCTACCTTCGCTGCGCTGGGCTCAGTTTCCACATCTGCACAAATGGG
GGTGACCATCCCTGCCCTGCTGGCTGCCAGGAGCGGCTGTGAGTCTTCAGGCGTGGATGCAGCCTGGGGGAAGCC
ATAGGGCGCTTTCACAGGCCTGGCCTTCACCATGGCGGGAGGGAGACCGCATCTGAAGAGGAGTTTCTCCATCAT
CCCCTGCTTTGTCTTCGTGGAGTGGTGCTGCTGGGCATTGTGATCCTGCTTGCTTACCGCCTGGAGTTCACGGA
CACCTTCCCTGTGCACACCCAGGGATTCTTCTGCTATGACAGTACCTACGCCAAGCCCTACCCAGGGCCTGAGGC
TGCCAGCCGAGTGCCCTCCTGCTCTTGTCTACGCACTGGTCACTGCCGGGCCACCCCTCACGATCCTGCTGGGAGA
GCTGGCGCGTGCCCTTTTCCCTGCACACCTTCAGCCGTCCAGTCACTCGGGGAGAGCACCATCGTGCTGGGGC
CTGCTGCCGCTTCAGCCCCCAGTGCGGAGGCTGGTCCGCTTCCTGGGGGTCTACTCCTTCGGCCTCTTACCAC
GACCATCTTCGCCAACGCGGGGCGAGGTGGTGACCGGCAATCCACGCCACACTTCTGTCCGTGTGCCGCCCCAA
CTACAGGGCCCTGGGCTGCCTGCCACCTTCTCCGATCGGCCAGGTCCCGACCGCTTTGTCACTGACCAGGGTGC
CTGCGTGGCAGTCCCAGCCTCGTGGCCGCGCGCGCCGCGCCTTCCCCTGCAAGGATGCGGCCCTCTGCGCCTA
CGCGGTACCTACACAGCGATGTACGTGACTCTCGTGTTCCGCGTGAAGGGCTCCCGCCTGGTCAAACCTTCGCT
CTGCTGCGCTTGCTGTGACAGGGGCGGCCATCGCCACCTTTTGGTCACTGCGTTGTGCATAACTTTCAGAG
CCGGCCACCTCTGGCCGAAGGCTCTCTCCCTGGGAGGACCTGGGCCAAGCCCCACCATGGATAGCCCCCTCGA
AAAGAACCCGAGGTCTGCAGGCCGCAATTCGACACCGGCACGGCTCACCCATCCAAGTCGAGAAGTGCGCCCGC
CGTGCCACCTGATCCCAGCTGTGTCTCCTCCAGGGCCCCAGCCATGTGTTCGTGCCCCGTGTGCCCCGTCT
CGATTGAGGTCTGAGCCGACGCCCTTGCCCTTACCCCTGCCAGCGCCACCCACCCAGCCAGGGCCCCCTCG
CCTTCTTCCCCTGGACCTGGGGGGCCAGGCGGGGGTGGTGACGTGGCGGAAGCTGCTGCTGCCACGCCCTTG
CTGCGGGACCTGTACACCCTGAGTGGACTCTATCCCTCCCCCTTCCACCGGACAACCTCAGCCCTTACCTGTTT
GCCAGCCGTGACCACCTGCTGTGAGGCCCCGACCCACCCAGAAATCTGCCAGTCCCCACTTCTTCCCTGCCAC
GCGTGTGTGTGCGTGTGCCACGTGAGTGCCAAAGTCCCCTGCCCCCAAGCCAGCCAGCCAGACATTAGAAGA
TGGCTAGAAGGACATTTAGGAGACATCTGCCTCTCTGGCCCTCTGAGATATCCCGATGGGCACAAATGGAAGGTG
CGCACTTGCCCTACTATTGCCCTTTTAAGGGCCAAAGCTTGACCCCATTGCCATTGCCTGGCTAATGAGAACC
CCTGGTTCTCAGAATTTTAACCAAAGGAGTTGGCTCCAACCAATGGGAGCCTTCCCCTCACTTCTTAGAATCCT
CCTGCAAGAGGGCAACTCCAGCCAGTGTTTACGCGACTGAACAGCCAATAGGAGCCCTTGGTTTCCAGAATTTCTA
GAGTGGGTGGGCATGATTCCAGTCAATGGGGGACCGCCCGTGTCTAAGCATGTGCAAAGGAGAGGAGGGAGATGA
GGTCATTGTTTGTGATTGAGTCTTCTCTCAGAATCAGCGAGCCCAGCTGTAGGGTGGGGGGCAGGCTCCCCATG
GCAGGGTCCCTGGGGTACCCCTTTTCTCTCAGCCCCCTCCCTGTGTGCGGCCCTCTCCACCTCTCACCCACTCTCT
CCTAATCCCCTACTTAAGTAGGGCTTGCCCCACTTCAGAGGTTTTGGGGTTTCCAGGTTGCTGTGTCTCCCCCTGCC
TGTGCCCAGGTCAATCCAAACCCTTCTGTTATTTATTAGGGCTGTGGGAAGGGTTTTTCTTCTTTTCTTGGAAAC
CTGCCCCGTGTTCTTCACTGCCCCCATGCCTCAGCCTCATACAGATGTGCCATCATGGGGGGCATGGGTGGAG
CAGAGGGGCTCCCTCACCCCGGGCAGGCAAAGGCAGTGGGTAGAGGAGGCACTGCCCCCTTCTGCCCCCTCC
TCATCTTTAATAAAGACCTGGCTTCTCATCTTTAATAAAGACCTGTTTGTAAACAG

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FIGURE 5258

ACTTAGAGGCGCCTGGTCGGGAAGGGCCTGGTCAGCTGCGTCCGGCGGAGGCAGCTGCTGACCCAGCTGTGGACT
GTGCCGGGGGCGGGGACGGAGGGGCAGGAGCCCTGGGCTCCCCGTGGCGGGGGCTGTATCATGGACCACCTCGG
GGCGTCCCTCTGGCCCCAGGTCTGGCTCCCTTTGTCTCCTGCTCGCTGGGGCCCGCTGGGCGCCCCCGCTAACCT
CCCGGACCCCAAGTTCGAGAGCAAAGCGGCCTTGCTGGCGGGCCCGGGGGCCCGAAGAGCTTCTGTGCTTACACGA
GCGGTTGGAGGACTTGGTGTGTTTCTGGGAGGAAGCGGCGAGCGCTGGGGTGGGCCCCGGGCAACTACAGCTTCTC
CTACCAGCTCGAGGATGAGCCATGGAAGCTGTGTGCGCTGCACCAGGCTCCACGGCTCGTGGTGCGGTGCGCTT
CTGGTGTTCGCTGCCTACAGCCGACACGTCGAGCTTCGTGCCCTTAGAGTTGCGCGTACACAGCAGCTCCGGCGC
TCCGCGATATCACCGTGTCTACATCAATGAAGTAGTGCTCCTAGACGCCCCCGTGGGGCTGGTGGCGCGGTT
GGCTGACGAGAGCGGCCACGTAGTGTGCGCTGGCTCCCGCCGCTGAGACACCCATGACGTCTCACATCCGCTA
CGAGGTGGACGTCTCGGCCGGCAACGGCGCAGGGAGCGTACAGAGGGTGGAGATCCTGGAGGGCCGCACCGAGTG
TGTGCTGAGCAACCTGCGGGGCGGACGCGCTACACCTTCGCCGTCCGCGCGCGTATGGCTGAGCCGAGCTTCGG
CGGCTTCTGGAGCGCCTGGTCGGAGCCTGTGTGCTGCTGACGCCCTAGCGACCTGGACCCCCCTCATCCTGACGCT
CTCCCTCATCCTCGTGGTCTATCCTGGTGTGCTGCTGACCGTGTCTGCGCTGCTCTCCACCGCCGGGCTCTGAAGCA
GAAGATCTGGCCTGGCATCCCGAGCCCAGAGAGCGAGTTTGAAGGCCCTTTCACCACCCACAAGGGTAACCTTCCA
GCTGTGGCTGTACCAGAATGATGGCTGCCTGTGGTGGAGCCCCTGACCCCCCTTACGGAGGACCCACCTGCTTC
CCTGGAAGTCCTCTCAGAGCGCTGCTGGGGGACGATGCAGGCAGTGGAGCCGGGGACAGATGATGAGGGCCCCCT
GCTGGAGCCAGTGGGCAGTGAGCATGCCAGGATACCTATCTGGTGTGCTGGACAAATGGTTGCTGCCCCGGAACCC
GCCAGTGAGGACCTCCCAGGGCCTGGTGGCAGTGTGGACATAGTGGCCATGGATGAAGGCTCAGAAGCATCCTC
CTGCTCATCTGCTTTGGCCTCGAAGCCAGCCCAGAGGGAGCCTCTGCTGCCAGCTTTGAGTACACTATCCTGGA
CCCCAGCTCCCAGCTCTTGCGTCCATGGACACTGTGCCCTGAGCTGCCCCCTACCCACCCACCTAAAGTACCT
GTACCTTGTGGTATCTGACTCTGGCATCTCAACTGACTACAGCTCAGGGGACTCCAGGGAGCCCCAAGGGGGCTT
ATCCGATGGCCCCCTACTCCAACCCTTATGAGAACAGCCTTATCCCAGCCGCTGAGCCTCTGCCCCCAGCTATGT
GGCTTGCTCTTAGGACACCAGGCTGCAGATGATCAGGGATCCAATATGACTCAGAGAACCAGTGCAGACTCAAGA
CTTATGGAACAGGGATGGCGAGGCCTCTCTCAGGAGCAGGGGCATTGCTGATTTTGTCTGCCCAATCCATCCTGC
TCAGGAAACCACAACCTTGCAGTATTTTTAAATATGTATAGTTTTTTTG

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FIGURE 5259

MDHLGASLWFPQVGS LCLLLAGAAWAPPPNLPDPKFESKAALLAARGPEELLCFTERLEDLVCFWEEAASAGVGPG
NYSFSYQLEDEFPWKLRLHQAPTARGAVRFWCSLPTADTSSFVPLELRVTAASGAPRYHRVIHINEVVLLDAPVG
LVARLADESGHVVLRLWLPPEPMTSHIRYEVDSAGNGAGSVQRVEILEGRTECVLSNLRGRTRYTFAVRARM
EPSFGGFWSAWSEPVSLLTSPDLPLILTSLILVILVLLTVLALLSHRRALKQKIWPGIPSESEFEGFLTTH
KGNFQLWLYQNDGCLWWSPTPFTEDPPASLEVLSERCWGTMQAVEPGTDDEGPLLEPVGSEHAQDTYLVLDKWL
LPRNPFPSEDLPGPGGSVDIVAMDEGSEASSCSSALASKPSPEGASAASFYITILDPSSQLLRPWTLCPELPPTPP
HLKYLYLVVSDSGISTDYSSGDSQGAQGGLSDGPYSNPYENSLIPAAEPLPPSYVACS

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FIGURE 5260

ATTTTTCAGAGCCCTAGGAATCCGAGCTGACGGATCCCTGACAGGGGCGACTGACTCCTAGTTATCCCCCTAACC
CCTAGGGGCGCTTCAGCCCCAACCCCATCATGACATCTCCTCTGTGTCAGGGCGGCCTCCGCCAACGCCCTGCCTCC
TCAGGACCAGGCTTCGACGCCCTCTTCCAGGGTCAAGGGCAGGGAGGCTTCGGGCAAACCCAGCCACCTCCGAGG
CAAGGGCACAGCCCAGGCGTGGACCCCAGGCCGTTCCAAGGGAGGATCCTTCCACAGAGGTGCAGGGAAGCCTC
TGTGCACTCTCAGGTGGCTGAGTTACATAAAAAGATACAACCTGTTAGAGGGTGACCGGAAGGCTTTTTTTGAGAG
CTCTCAGTGGAACATCAAGAAGAACCAGGAGACCATCAGTCAGCTCCGCAAGGAGACTAAGGCACTGGAACATAA
GCTGCTGGACCTGCTCAAGGGAGATGAGAAAGTGGTCCAGGCAGTGATTTCGCGAATGGAAGTGGGAGAAGCCATA
CCTGAAGAACAGGACAGGACAGGCCCTGGAGCACCTAGACCACCGGCTGAGGGAGAAGGTGAAGCAGCAGAACGC
CCTGCGGCACCAAGGTGGTGTGCGGCAGAGGCGGCTGGAGGAGCTCCAGCTGCAGCACAGCCTGCGCCTTCTGGA
GATGGCGGAGGCGCAAAACAGACACACGGAGGTGGCCAAGACCATGCGGAACCTGGAGAACCCTGGAGAAGGC
CCAGATGAAGGCGCAGGAGGCCGAGCACATTACCAGCGTGTACCTGCAGCTCAAGGCCATCTAATGGACGAGAG
CCTCAACTTGGAGAACCGGCTGGACTCCATGGAGGCTGAGGTGGTGAGGACCAACATGAGCTGGAGGCACTGCA
CGTGGTGAACCAAGAGGCCCTCAATGCCCCGGGACATTGCCAAGAACCAGCTGCAGTACCTAGAGGAGACCTTGGT
TCGAGAGCGCAAGAAGCGGGAACGCTACATAAGTGAGTGCAAGAAGCGCGCCGAGGAGAAGAACTGGAGAACGA
GCGCATGGAGCGCAAGACCCACCGCGAGCACCTGCTGCTACAGTCCGACGACACCATCCAGGACAGCCTGCATGC
CAAGGAGGAGGAGCTGCGGCAGCGCTGGAGCATGTACCAGATGGAGGTGATCTTTGGCAAGGTCAAGGACGCCAC
TGGCACTGACGAGACGCACTCGTTGGTGCGGCGGTTCTTGGCCCAGGGCGACACCTTCGCGCAGTTGGAGACGCT
CAAGAGCGAGAACGAGCAGACGTTGGTGAGGCTGAAGCAGGAGAAGCAACAACCTGCAGCGGGAGCTGGAAGACCT
CAAGTACTCGGGGGAGGCCACGCTGGTGAGCCAGCAGAACTGCAAGCCGAGGCGCAGGAGCGTCTCAAGAAGGA
GGAGCGGCGGCACGCCGAGGCCAAGGACCAGCTGGAGCGCGCTTGCGGGCGATGCAAGTGGCCAAGGACAGCCT
GGAGCACCTGGCCAGCAAGCTGATCCACATCACTGTGGAGGACGGCCGCTTCGCGGGAAAGGAGCTGGATCCCCA
GGCAGATAACTATGTGCCAAACCTGCTGGGCCTCGTGAGGAAAAGCTGCTGAACTGCAGGCGCAGCTCCAGGG
CCACGACGTGCAGGAGATGCTGTGCCACATCGCTAACCGCGAGTTCCTCGCCAGCTTAGAGGGAAGGCTGCCCCGA
ATACAACACCCGCATCGCCCTGCCCTTGCCACTTCCAAGGACAAGTTTTTTGACGAAGAGAGTGAGGAGGAGGA
CAACGAGGTAGTGACCCGCGCATCACTCAAGATCCGTTCCAGAAATTAATCGAAAGTCACAAGAAGCACCGTCG
CTCTCGGAGGTCTTAGACTCGTCTGACACCCACCAGGCGGCCCTTCGGAGCCCCGATCCCTCCGGGTCTAG
CGCAGGCCCCACGGGGCCCCCTTCAGGGGCTGAACGCGGCCCGGACCGGGAACGGAGGCGGCCAGCGGCGCCCCGA
GGGGAGGAAGGGGCCGGGCCAGACGTTCCACAGTAAATCTCCCCAGCTGGGTCCGCCCCGCCCTCAGAGTTGCG
CAATAAATGTTACCGACCATG

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FIGURE 5261

GCTGCGCCGCCATTAAAGAGCTAGCCCTCAGAACTATCCTCTCTAAGGTTTCACAGTCCTGCCCAAGATGGCCGTC
TCGGCTCTGGCACCGCCCCCACTCCTGCCTCTCCCAACATGGCGACCCTGAGTCTCCGTTCCCGGTGCGGAACGT
ACGACCGGAAGTGACGGGGTCCAGAAATTTCCGCTTTCTTTCTGTCAGCAGGAACCGCGGTGCTGGACAAGAGGG
GTGCGGTGGATACTGACCTTTGCTCCGGCCTCGTCGTGAAGACACAGCGCATCTCCCCGCTGTAGGCTTCTCTCC
ACAGAACCCGTTTCGGGCCTCAGAGCGTCTGGTGAGATGCTGTTGCCGCTGCTGCTGCTGTACCCATGTGCTGG
GCCGTGGAGGTCAAGAGGCCCCGGGGCGTCTCCCTCACCAATCATCACTTCTACGATGAGTCCAAGCCTTTCACC
TGCTTGGACGGTTTCGGCCACCATCCCATTGATCAGGTCAACGATGACTATTGCGACTGCAAGATGGCTCTGAC
GAGCCAGGCACGGCTGCCTGTCTAATGGCAGCTTCCACTGCACCAACACTGGCTATAAGCCCCCTGTATATCCCC
TCCAACCGGGTCAACGATGGTGTGTTGACTGCTGCGATGGAACAGACGAGTACAACAGCGGCGTCATCTGTGAG
AACACCTCAGAGAGAAGGGCCGTAAGGAGAGAGAGTCCCTGCAGCAGATGGCCGAGGTCAACCGCGAAGGGTTCC
GTCTGAAGAAGATCCTTATTGAGGACTGGAAGAAGGCACGGGAGGAGAAGCAGAAAAAGCTCATTGAGCTACAGG
CTGGGAAGAAGTCTCTGGAAGACCAGGTGGAGATGCTGCGGACAGTGAAGGAGGAAGCTGAGAAGCCAGAGAGAG
AGGCCAAAGAGCAGCACCAGAAGCTGTGGGAAGAGCAGCTGGCTGCTGCCAAGGCCCAACAGGAGCAGGAGCTGG
CGGCTGATGCCTTCAAGGAGCTGGATGATGACATGGACGGGACGGTCTCGGTGACTGAGCTGCAGACTCACCCGG
AGCTGGACACAGATGGGGATGGGGCGTTGTGAGAAGCGGAAGCTCAGGCCCTCCTCAGTGGGGACACACAGACAG
ACGCCACCTCTTTCTACGACCGCGTCTGGGCCGCCATCAGGGACAAGTACCGGTCCGAGGCACTGCCCCACCGACC
TTCCAGCAGCTTCTGCCCTGACTTGACGGAGCCCAAGGAGGAGCAGCCGCCAGTGCCTCTGTCGCCCCACAGAGG
AGGAGGAGGAGGAGGAGGAGGAGGAAGAAGAGGCTGAAGAAGAGGAGGAGGAGGAGGATTCCGAGGTGCAGG
GGGAGCAGCCCAAGGAGGCCCCACCGCCACTGTACCCCCGAGCCGGCCAGCCCTGCTGAGGAAGACAAAATGC
CGCCCTACGACGAGCAGCAGCGAGGCTTTCATCGATGCTGCCAGGAGGCCCGCAACAAGTTCGAGGAGGCCGAGC
GGTCTGCTGAAGGACATGGAGGAGTCCATCAGGAACCTGGAGCAAGAGATTCTTTTGACTTTGGCCCCAACGGGG
AGTTTGCTTACCTGTACAGCCAGTGTACGAGCTCACCACCAACGAATACGTCTACCGCCTCTGCCCCCTTCAAGC
TTGTCTCGCAGAAACCCAACTCGGGGGCTCTCCACACAGCCTTGGCACCTGGGGCTCATGGATTGGCCCCGACC
ACGACAAGTTCAGTGCCATGAAGTATGAGCAAGGCACGGGTGCTGGCAGGGCCCCAACCGCTCCACCACCGTGC
GCCTCCTGTGCGGGAAGAGACCATGGTGACCAGCACCACAGAGCCCAAGTCTGCTGCGAGTACCTCATGGAGCTGA
TGACGCCAGCCGCTGCCCGGAGCCACCGCCTGAAGCACCACAGAGCCAGTACGAGCTCTAGCTGGATG
GGCGCAGAGGTGGGCGGGGAGGTGGAGTCTCGTCGGCCTGCCCCAGCAAGGGGAGGCGGGCCCTGAGGAAGA
TGGACCCACATGGCCACTCTATCAACCTGTGTCCCCATGTTCCCTGCTTTTTTTGTTTTTTTGGAGGTGGAG
TCTCACTCTTTGGCCCAGGCTGGAGTGACGTGATGCGACCTCAGCTGACTGCAACCTCTACCTCCCGGGTTCAAA
CAATTGTCTTGTCTCAGCCTCCCAAGTAGCTGGGATTACAGGTGTGCACCACCATGCCTGGCTAATTTTTTAGTAG
AGATGGGGTTTACCATGTTGGCCTGGATGGTCTCGAACTCCTGACCTCAGATGATCCACCTGCCTTGGCCTCCC
AAAGTGCTGGGATTACAGGCATGAGCCACCACACCCGGCCATCTCCTGCCTTTTTTTTTTTTGGATGGAGTTTAC
TCTTGTGCGGAGATCATGCTACTGCACTCTCCAGCCTGGGCTACAGAGTGAGACTCTCAAAAAAAAAAATAAT
AATAATAAGAGAAAAATAGACAAGGTCTCCAGGCTGGTCAACTCCTGGCCTCAAATGATCCTCCACCTCAGCCTC
CCAAGCAGCCGGGACTACAGGCAACATCACCATGTCCAGCTGTCCCCAGCTTTCTAATCTGGTCTTTCTCTTGC
CCCAGAACCTCAAGAAGGCATGAAGCCAGCCCTGCAGTGCCGTCCACCCGCCCTCTGGGCCTGCCTGTGGCTC
TGTTGCCCTCCTCTGTGGCGGACGACCTTTGTGGGGCTTCGTGCCCTGCTCTGGGGCCAGGCGGGGCTGGTCC
ACATTCCAGGCCCAACAGCCTTCAAAGATGGGTAAAGGAGCTTGCCCTCCTGGGGCCCCACCTTGGTGACT
CGCCCCACACCCCAAGCCTGTCCCTGCCACCCCTCCTAGTGGGGACTAGTGAATGACTTGACCTGTGACCTCA
ATACAATAAATGTGATCCCCCACC

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[illegible]

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FIGURE 5263

MGRRKSKRKPPPKKMTGTLETQFTCPFCNHEKSCDVKMDRARNTGVISCTVCLEEFQTPITYLSEPVDVYSDWI
DACEAANQ

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FIGURE 5264

TTTCTGCCCGTGGACACCGCCGAAGAAGCATCGTTAAAGTCTCTCTTCACCCTGCCGTCATGCTCTAAGTCAGAGT
CTCCTAAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACAACTGATGAGAGCCTGA
GGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAACACCAAGCGCTCCAGGG
GCTTTGGGTTTGTACGTATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGGCCACACAAGGTGGATG
GAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGGTGCCCACTTAACTGTGAAAA
AGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTGAACAGTATGGAAAAA
TTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCCTTTGTAACCTTTGACGACC
ATGACTCCGTGGATAAGACTGTCATTTCAGAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGAAAAGCCC
TGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCGGAAACTTTGGTGGTGGTC
GTGGAGGTGGTTTCGGTGGGAATGACAACCTTCGGTCGTGGAGGAACTTCAGTGGTCGTGGTGGCTTTGGTGGCA
GCCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCAATTTTGGAG
GTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGAAATT
TTGGAGGCAGAAGCTCTGGCCCCTATGGCGGTGGAGGCCAATACTTTGCAAAACCACGAAACCAAGTGGCTATGG
CGTTCCAGCAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGAGGAG
AGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAATAGATTTGTGAACTCAGCCAAGCACAGTGGTGGCAGGGCC
TAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTGTG
ACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAACGT
AGATTTCTTTTTGCACCCCATGCTGTTGATTGCTAAATGTAATAGTCTGATCGTGATGCTGAATAAATGCTTTTT
TTTT

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FIGURE 5265

MSKSESPKEPEQLRKLF IGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDAAMNAR
PHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMTDRGSGKKRGFAF
VTFDDHDSVDKTVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGGGRGGGFGGNDNFGRGGNFSGR
GGFGGSHGGGGYGGSGDGYNGFGNDGSNFGGGGSYNDFGNYNQSSNFGPMKGGNFGGRSSGPYGGGGQYFAKPR
NQVAMAVPAAAVAMAVAEDFN

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FIGURE 5266

CTCTTTCCCTTCAGTGTGCCACTGAAGATCCTGGTGTGCGCATGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTGCAATTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTCTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCT
CTGAAGCCCTGGAGGCTGCCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTCATCCGCATCAACAAGATGTCGTCCTGTGCTGGGGCTGACAGGCTCC
AAACAGGAATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTCACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAAGGAGCGTGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTTGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACCAAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
CTCTGGACAAGTGGTGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTCACCAATAAA
TTCTACTT

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FIGURE 5267

CTCTTGGCGAGACGCGCGCGTTCGGGGTTTAAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCCTTCGGCACCAACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGCTGGGCAAGGAGATCAACAACCCAGA
GTCEGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCTTACAAGAACCCGGGCCTGGTCCCTGGACATCGTTGAGGACCTGAGGCTCATCAACAC
ACAGGCCATCTTTGCCAAGTGCCTGGGATGATCATTCTGGGCGGGGCGTGGTCAAGCACCATTTGCCAATGC
CAACCTCATGCGGAACGGGGCCGACTACGCTGTTTACATCAACACAGCCCAGGAGTTTGATGGCTCTGACTCAGG
TGCCCGACCAGACGAGGCTGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGC
CTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGA
GGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCCCTCCCC
TACTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA
A

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FIGURE 5268

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRVQQVNAMEKKLE
PLSQDEQHADLTQSRRLTSCITIFLGYSNLISGIRETIRYLVQHNMVVDVLVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVMEQNTGKWTSPKMIARLGKEINNPEVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEDLRLINTQAIFAKCTGMIILGGGVVKHHIANANLMRNGA
DYAVYINTAQEFDGSDSGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFAQMDFMHEKNED

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FIGURE 5269

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCACCGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTTCGCTA
CCTTGTGCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTTCTGGACCAGATGGTGTGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCCCTGGACATCGTTGAGGCCAGGAGTTTGATGGCTC
TGACTCAGGTGCCCCGACCAGACGAGGCTGTCTCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTA
TGCTGACGCCTCCCTGGTCTTCCCCCTGCTTGTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGA
GAAGAACGAGGACTGAGCGGCTGCGGTCCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAG
CCCCCTCCCTACTTTTTTGGTCAGCTACGTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAA
AAAAAAAAAA

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FIGURE 5270

CTCTTGCGGAGACGCGCGCTCGGGGTTTAACGCGTTTCTGGGCCGCCGTAAGCCCGGCCCTAGGGGCAGCTTTGA
CTCGAGAGCCGGCTATAGGCGCATGGAAGGTTCCCTGGAACGGGAGGCGCCAGCGGGGGCGCTGGCCGCCGTGCT
AAAGCACAGCTCGACGTTGCCGCCCCGAAAGCACCCAGGTCCGGGGCTACGACTTCAACCGCGGTGTGAATTACCG
CGCACTGCTGGAGGCCTTCGGCACCCACGGCTTCCAAGCAACCAACTTCGGGCGCGCTGTACAGCAAGTCAATGC
CATGATCGAGAAGAAGCTGGAACCACTGTCACAGGATGAAGACCAGCACGCGGACCTGACCCAGAGCCGCCGCC
ACTTACCAGCTGCACCATTTTCTGGGATATACATCCAACCTCATCAGTTCAGGCATCCGTGAGACCATTGCTA
CCTTGTCAGCACAAACATGGTGGACGTATTGGTGACCACAGCTGGCGGCGTGGAGGAAGACCTCATCAAGTGCCT
GGCGCCACATACTTGGGCGAGTTTAGCCTCAGGGGGAAGGAGCTCCGGGAGAACGGGATCAATAGGATCGGAAA
CCTGCTGGTGCCCAATGAGAATTACTGCAAGTTTGAGGACTGGCTGATGCCCATTCTGGACCAGATGGTGATGGA
GCAGAACACAGAGGGTGTAAGTGGACGCCTTCTAAGATGATCGCCCGGCTGGGCAAGGAGATCAACAACCCAGA
GTCCGTGTATTACTGGGCCCAGAAGAACCACATCCCTGTGTTTAGTCCCGCACTTACAGACGGCTCGCTGGGCGA
CATGATCTTCTTCCATTCCCTACAAGAACCCGGGCCTGGTCCCTGGACATCGTTGAGGGTGCCCGACCAGACGAGGC
TGTCTCCTGGGGCAAGATCCGGGTGGATGCACAGCCCGTCAAGGTCTATGCTGACGCCTCCCTGGTCTTCCCCCT
GCTTGTTGGCTGAAACCTTTGCCCAGAAGATGGATGCCTTCATGCATGAGAAGAACGAGGACTGACGGGCTGCGGT
CCCAGGAAGGTCTTACCCCTCTTCTATTTATTAATTTGCAGACCCAGCCCTCCCTACTTTTGGTCAGCTAC
GTCTCTAGAATAAGATGGTATCTGAAGTCCTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5271

MEGSLEREAPAGALAAVLKHSSTLPPESTQVRGYDFNRGVNYRALLEAFGTTGFQATNFGRAVQQVNAMEKKLE
PLSQDEQDQHADLTQSRRLTSCITIFLGYSNLISSGIRETIRYLVQHNMDVLDVTTAGGVEEDLIKCLAPTYLGE
FSLRGKELRENGINRIGNLLVPNENYCKFEDWLMPILDQMVEQNTGKWKTPSKMIARLGKEINNPESVYYWAQ
KNHIPVFSPALTDGSLGDMIFFHSYKNPGLVLDIVEGARPDEAVSWGKIRVDAQPVKVYADASLVFPLLVAETFA
QKMDAFMHEKNED

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FIGURE 5272

CCAGCAGGGAGCTGGGAGCTGGGGGAAACGACGCCAGGAAAGCTATCGCGCCAGAGAGGGCGACGGGGGCTCGGG
AAGCCTGACAGGGCTTTTTCGCACAGCTGCCGGCTGGCTGCTACCCGCCCGCGCCAGCCCCGAGAACGCGCGAC
CAGGCACCCAGTCCGGTCACCGCAGCGGAGAGCTCGCCGCTCGCTGCAGCGAGGCCCCGAGCGGCCCCCGCAGGGA
CCCTCCCCAGACCGCTGGGCCGCCCGGATGTGCACTAAAATGGAACAGCCCTTCTACCACGACGACTCATACAC
AGCTACGGGATACGGCCGGGCCCCCTGGTGGCCTCTCTCTACACGACTACAACTCCTGAAACCGAGCCTGGCGGT
CAACCTGGCCGACCCCTACCGGAGTCTCAAAGCGCCTGGGGCTCGCGGACCCGGGCCAGAGGGCGGCGGTGGCGG
CAGCTACTTTTCTGGTCAGGGCTCGGACACCGGCGCGTCTCTCAAGCTCGCCTCTTCGGAGCTGGAACGCCTGAT
TGTCCTCCCAACAGCAACGGCGTGATCACGACGACGCTACACCCCCGGGACAGTACTTTTACCCCCGCGGGGGTGG
CAGCGGTGGAGGTGCAGGGGGCGCAGGGGGCGGCGTCAACGAGGAGCAGGAGGGCTTCGCCGACGGCTTTGTCAA
AGCCCTGGACGATCTGCACAAGATGAACCACGTGACACCCCCAACGTGTCCCTGGGCGCTACCGGGGGGCCCCC
GGCTGGGCCCCGGGGCGTCTACGCCGGCCCCGAGCCACCTCCCGTTTACACCAACCTCAGCAGCTACTCCCCAGC
CTCTGCGTCCCTCGGGAGGCGCCGGGGCTGCCGTGGGACCGGGAGCTCGTACCCGACGACACCACATCAGCTACCT
CCCACACGCGCCGCCCTTCGCCGGTGGCCACCCGGCGCAGCTGGGCTTGGGCCGCGGCGCCTCCACCTTCAAGGA
GGAACCGCAGACCGTGCCGGAGGCGCGCAGCCGGGACGCCACGCCCGCGGTGTCCCCCATCAACATGGAAGACCA
AGAGCGCATCAAAGTGGAGCGCAAGCGGCTGCGGAACCGGCTGGCGGCCACCAAGTGCCGGAAGCGGAAGCTGGA
GCGCATCGCGCGCCTGGAGGACAAGGTGAAGACGCTCAAGGCCGAGAACGCGGGGCTGTGAGTACCGCCGGCCT
CCTCCGGGAGCAGGTGGCCAGCTCAAACAGAAGGTGATGACCCACGTGAGCAACGGCTGTCAGCTGCTGCTTGG
GGTCAAGGGACACGCCTTCTGAACGTCCCTGCCCTTTACGGACACCCCTCGCTTGGACGGCTGGGCACACGC
CTCCCACTGGGGTCCAGGGAGCAGGCGGTGGGCACCCACCTGGGACCTAGGGGCGCCGCAAACCACACTGGACT
CCGGCCCCCTACCTGCGCCAGTCCTTCCACCTCGACGTTTACAAGCCCCCTTCCACTTTTTTTTGTATGT
TTTTTTCTGCTGGAACAGACTCGATTATTAATATAATATATTTGTGTATTTAACAGGGAGGGGAAGAGG
GGGCGATCGCGGCGGAGCTGGCCCCGCGCCTGGTACTCAAGCCCGCGGGGACATTGGGAAGGGGACCCCCGCC
CCTGCCCTCCCTCTCTGCACCGTACTGTGAAAAGAAACACGCACTTAGTCTCTAAAGAGTTTATTTTAAGACG
TGTTTGTGTTGTGTGTTGTTCTTTTATTGAATCTATTTAAGTAAAAAAAAAATTGGTTCCTTTATTAA

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FIGURE 5273

MCTKMEQPFYHDDSYTATGYGRAPGGLSLHDYKLLKPSLAVNLADPYRSLKAPGARGPGPEGGGGGSYFSGQGSD
TGASLKLASSELERLIVPNSNGVITTTPTPPGQYFYPRGGSGGGAGGAGGGVTEEQEGFADGFVKALDDLHKMN
HVTPPNVSLGATGGPPAGPGGVYAGPEPPPPVYTNLSSYSPASASSGGAGAAVGTGSSYPTTTISYLPHAPPFAGG
HPAQLGLGRGASTFKEEPQTVPEARSRDATPPVSPINMEDQERIKVERKRLNRRLAATKCRKRKLERIARLEDKV
KTLKAENAGLSSTAGLLREQVAQLKQKVMTHVSNQCQLLLGVKGHAF

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FIGURE 5274

CGCGGCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGCCTTTGCCCA
CGCAGCTTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAGCCAGCCCCTGACTTCAAGGCCACAGCGGTGG
TTGATGGCGCCTTCAAAGAGGTGAAGCTGTGCGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCTACCCCTCTGG
ACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTTCAGCAACCGTGCAGAGGACTTCCGCAAGCTGGGCTGTG
AAGTGCTGGGCGTCTCGGTGGACTCTCAGTTTACCCACCTGGCTTGGATCAACACCCCCCGAAAGAGGGAGGCT
TGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGCTCTGAGGATTACGGCGTGCTGAAAACAG
ATGAGGGCATTGCCTACAGGGGCTCTTTATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATT
TGCCTGTGGGACGCTCCGTGGATGAGGCTCTGCGGCTGGTCCAGGCCTTCCAGTACACAGACGAGCATGGGGAAG
TTTGTCCCGCTGGCTGGAAGCCTGGCAGTGACACGATTAAGCCCAACGTGGATGACAGCAAGGAATATTTCTCCA
AACACAATTAGGCTGGCTAACGGATAGTGAGCTTGTGCCCCCTGCCTAGGTGCCTGTGCTGGGTGTCCACCTGTGC
CCCCACCTGGGTGCCCTATGCTGACCCAGGAAAGGCCAGACCTGCCCCCTCCAACTCCACAGTATGGGACCCTGG
AGGGCTAGGCCAAGGCCTTCTCATGCCTCCACCTAGAAGCTGAATAGTGACGCCCTCCCCCAAGCCCACCCAGCC
GCACACAGGCCTAGAGGTAACCAATAAAGTATTAGGG

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FIGURE 5275

MASGNARIGKPAPDFKATAVVDGAFKEVKLSDYKGKYVVLFFYP LDFTFVCPTEIIAF SNRAEDFRKLGCEVLGV
SVDSQFTHLAWINTPRKEGGLGPLNIPLLADVTRRLSEYGV LKTDEGIAYRGLF IIDGKGVLRQITVNDLPVGR
SVDEALRLVQAFQYTDEHGEVCPAGWKPGSDTIKPNVDD SKEYFSKHN

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FIGURE 5276

AAAAGGCTTCGCGGCCCCAGGGCTCACTTGGCGCTGAGAACGCGGGTCCACGCGTGTGATCGTCCGTGCGTCTAGC
CTTTGCCCCACGCAGCTTTCAGTCATGGCCTCCGGTAACGCGCGCATCGGAAAAGCCAGCCCCCTGACTTCAAGGCCA
CAGCGGTGGTTGATGGCGCCTTCAAAGAGGTGAAGCTGTCGGACTACAAAGGGAAGTACGTGGTCCTCTTTTTCT
ACCCCTCTGGACTTCACTTTTGTGTGCCCCACCGAGATCATCGCGTTCAGCAACCGTGCAGAGGACTTCCGCAAGC
TGGGCTGTGAAGTGCTGGGCGTCTCGGTGGACTCTCAGTTCACCCACCTGGCTTGGATCAACACCCCCCGGAAAG
AGGGAGGCTTGGGCCCCCTGAACATCCCCCTGCTTGCTGACGTGACCAGACGCTTGTCTGAGGATTACGGCGTGC
TGAAAACAGATGAGGGCATTGCCTACAGGTACTGTGGGACCCCTCAGCCCGGCTCAGGGAGCGCCCTGCCCCCAT
TCCTGTGATGCTGGGACCACTCCTGTACAATGTCTTCTCTGCCCCAGCCCTGTGGCTAGCAGCGGGTGGTTGGT
AGTCCCTTCCTTGTCTCTGGCAGTGGGAGCTATCAGCTCCTCACTGGGAACCCCTGATGTCTTCAGGGGCCTCTTT
ATCATCGATGGCAAGGGTGTCTTCGCCAGATCACTGTTAATGATTTCCTGTGGGACGCTCCG

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FIGURE 5277

CCATGGCAGGTCGCTCCTGCAGTATTAGTTCTTGCAGCTGGTGGCGGGCTGAGGCGGCATGGATCTCAGCGAG
CTGGAGAGAGACAATACAGGCCGCTGTCGCCCTGAGTTCGCCCTGTGCCCCGGTGTGCCGCAAGGAGCCTTGCGTC
CTGGGCGTCGATGAGGCGGGCAGGGGCCCCGTGCTGGGCCCCATGGTCTACGCCATCTGTTATTGTCCCCTGCCT
CGCCTGGCAGATCTGGAGGCGCTGAAAGTGGCAGACTCAAAGACCCCTATTGGAGAGCGAGCGGGAAAGGCTGTTT
GCGAAAATGGAGGACACGGACTTTGTCGGCTGGGCGCTGGATGTGCTGTCTCCAAACCTCATCTCTACCAGCATG
CTTGGGCGGGTCAAATACAACCTGAACCTCCCTGTCACATGATACAGCCACTGGGCTTATACAGTATGCATTGGAC
CAGGGCGTGAACGTCACCCAGGTATTCGTGGACACCGTAGGGATGCCAGAGACATAACCAGGCGCAGCTGCAGCAA
AGTTTTCCCGGGATTGAGGTGACGGTCAAGGCCAAAGCAGATGCCCTCTACCCGGTGGTTAGTGCTGCCAGCATC
TGTGCCAAGGTGGCCCCGGGACCAGGCCGTGAAGAAATGGCAGTTCGTGGAGAACTGCAGGACTTGGATACTGAT
TATGGCTCAGGCTACCCCAATGATCCCAAGACAAAAGCGTGGTTGAAGGAGCACGTGGAGCCTGTGTTTCGGCTTC
CCCCAGTTTGTCCGGTTCAGCTGGCGCACGGCCCAGACCATCCTGGAGAAAGAGGCGGAAGATGTTATATGGGAG
GACTCAGCATCCGAGAATCAGGAGGGACTCAGGAAGATCACATCCTACTTCCTCAATGAAGGGTCCCAAGCCCCGT
CCCCGTTCTTCCACCGATATTTCTGGAACGCGGCCTGGAGTCAGCAACCAGCCTCTAGCAGCTGCCTCTACGC
GCTCTACCTGCTTCCCCAACCAGACATTAAAATTGTTTAAGGAG

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FIGURE 5278

MDLSELERDNTGRCRLSSPVPVAVCRKEPCVLGVDEAGRGPVLGPMVYAICYCPLPRLADLEALKVADSKTLLESE
RERLFAKMEDTDFVGWALDVLSPNLISTSM LGRVKYNLSLSHDTATGLIQYALDQGVNVTQVFVDTVGMPETYQ
AQLQQSFPGIEVTVKAKADALYPVVSAAASICAKVARQAVKKWQFVEKLQDLDTDYGSGYPNDPKTKAWLKEHVE
PVFGFPQFVRFSWRTAQ TILEKEAEDVIWEDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLESATSL

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FIGURE 5279

CTGGAAGGAGTCATGGCGGATGGTCAGGTGGCGGAAGTCTGCTCCGGCGGCTGGAGGCGTCTGATGGCGGCCTG
GACAGCGCCGAGTTGGCGGCTGAGCTGGGCATGGAGCACCAGGCGGTGGTGGGCGCCGTGAAGAGCCTTCAGGCG
CTGGGCGAGGTCATCGAGGCTGAAC TTCGGTCCACCAAGCACTGGGAGCTTACTGCGGAGGGCGAGGAGATTGCC
CGGGAGGGCAGCCATGAGGCCCGTGTGTTTCGAAGCATTCCCCAGAGGGCCTGGCCCAGAGCGAGCTTATGCGA
CTGCCCAGTGGCAAAGTGGGCTTCAGCAAGGCCATGTCCAACAAGTGGATTTCGGGTGGACAAGAGTGC GGCTGAC
GGGCCCCGGGTGTTCCGAGTGGTGGACAGCATGGAGGATGAGGTGCAGCGGCGGCTCCAGCTGGTCCGGGGGGGA
CAGGCTGAGAAGCTGGGGGAGAAGGAGAGGAGCGAGCTGAGGAAGAGGAAGCTGTTGGCTGAAGTGA CTCTGAAG
ACCTACTGGGTGAGCAAAGGCAGTGCCTTTAGTACCAGCATCTCCAAGCAAGAGACAGAGCTGAGCCCAGAGATG
ATCTCCAGTGGCTCTTGGCGGGACCGGCCCTTCAAGCCCTACAACCTCTTGGCCCCACGGTGTCTCTCCCCGACAGC
GGCCACCTTCACCCGCTGCTCAAGGTCCGCTCCCAAGTTCGGACAGATCTTCCTGGAGATGGGGTTTACCGAGATG
CCGACTGATAACTTCATTGAGAGCTCCTTCTGGAACCTTGACGCCCTCTTCCAGCCCCAGCAGCACCCAGCCCCGT
GACCAGCACGACACCTTCTTCTTCGAGATCCAGCGGAGGCCCTGCAGCTCCCAATGGACTATGTCCAGCGGGTC
AAGCGGACCCACTCTCAGGGCGGCTACGGCTCACAGGGGTACAAGTATAACTGGAAGCTGGACGAGGCCCCGAAA
AACCTACTGCGAACCACACACATCAGCCAGCGCCCGTGCCTCTACCGCCTTGCCCAGAAGAAGCCCTTCACT
CCGGTCAAGTACTTCTCCATCGACCGCGTATTCCGGAATGAGACCCTGGACGCCACGCACCTGGCTGAGTTCCAC
CAGATCGAGGGCGTGGTGGCGGATCATGGTCTCACCTTGGGCCACCTCATGGGCGTTCTGCGGGAGTTCTTACC
AAGCTGGGTATCACGCAACTCCGCTTCAAGCCAGCCTACAACCCATACACAGAGCCCAGCATGGAGGTGTTTACG
TACCACCAAGGCCTGAAGAAGTGGGTGGAGGTGCGAACTCGGGGTCTTCCGTCCAGAGATGCTGCTGCCCATG
GGGCTTCCCGAGAACGTGTCGGTCATTGCCTGGGGCCTCTCCCTGGAGCGCCCAACGATGATCAAATATGGCATC
AACAATATCCGGGAGCTGGTGGGCCACAAGGTGAACCTGCAGATGGTGTATGACAGTCCCCTGTGCCGCCTGGAT
GCCGAGCCGAGGCCCCCTCCACACAGGAGGCTGCGTGAATGGGCCACTCTAGGACAGGTCATCCTCCCCGAGT
CCCTGCTGCTGCGCTCCTTTGCATCCCTGGCCAGTGACCTTGATTTATGAGGCTCTGTGAGGCCAGCCCCACC
TTCCTCTTTCCACCTGTCCCAGGACCAGAAATCCAGGGACAGAGGACTGGGTAGCAGGTTCTTCTGTTGTCT
GTGTGGTGTGTCTACTGTGAGGGTGGGCCCTGAGGAGACCTGTGGGCCACCTATTGTCTAATAAAGTGGGCAGTT
GCCCCCA

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FIGURE 5280

MADGQVAELLLRRLEASDGGGLDSAELAAELGMEHQAVVGAVKSLQALGEVIEAELRSTKHWELTAEGEEIAREGS
HEARVFRSIPPEGLAQSELMRLPSGKVGFSKAMSNKWIRVDKSAADGPRVFRVVDSMEDEVQRRQLVRRGGQAEK
LGEKERSELRRKLLAEVTLKTYWVSKGSASFSTSIKQETELSPEMISSGSWDRPFKPYNFLAHGVLDPDSGHLH
PLLKVR SQFRQIFLEMGFTEMPD NFI ESSFWNFDALFQPQQHPARDQHD TFFLRDPAEALQLPMDYVQVRKTH
SQQGYGSQGYKYNWKLDEARKNLLRTHHTTSASARALYRLAQKKPFTPVKYFSIDRVFRNETLDATHIAEFHQIEG
VVADHGLTLGHLMGVLREFFTKLGITQLRFKPAYNPYTEPSMEVFSYHQGLKKWVEVGNSGVFRPEMLLPMLPE
NVS VIAWGLSLERPTMIKYGINNIRELVGHKVNLMVYDSPLCRLDAEPRPPPTQEAA

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FIGURE 5281

GTCCGTACTGCAGAGCCGCTGCCGGAGGGTCGTTTTAAAGGGCCCGCGCGTTGCCGCCCCCTCGGCCCCGCCATGC
TGCTATCCGTGCCGCTGCTGCTCGGCCTCCTCGGCCTGGCCGTGCGCGAGCCTGCCGTCTACTTCAAGGAGCAGT
TTCTGGACGGAGACGGGTGGA CTTCCTCGCTGGATCGAATCCAAACACAAGTCAGATTTTGGCAAATTCGTTCTCA
GTTCCGGCAAGTTCTACGGTGACGAGGAGAAAGATAAAGGTTTGCAGACAAGCCAGGATGCACGCTTTTATGCTC
TGTCGGCCAGTTTCGAGCCTTTTCAGCAACAAAGGCCAGACGCTGGTGGTGCAGTTCACGGTGAACATGAGCAGA
ACATCGACTGTGGGGGCGGCTATGTGAAGCTGTTTCCTAATAGTTTGGACCAGACAGACATGCACGGAGACTCAG
AATACAACATCATGTTTGGTCCCGACATCTGTGGCCCTGGCACCAAGAAGGTTTCATGTCATCTTCAACTACAAGG
GCAAGAACGTGCTGATCAACAAGGACATCCGTTGCAAGGATGATGAGTTTACACACCTGTACACACTGATTGTGC
GGCCAGACAACACCTATGAGGTGAAGATTGACAACAGCCAGGTGGAGTCCGGCTCCTTGAAGACGATTGGGACT
TCCTGCCACCCAAGAAGATAAAGGATCCTGATGCTTCAAACCGGAAGACTGGGATGAGCGGGCCAAGATCGATG
ATCCACAGACTCCAAGCCTGAGGACTGGGACAAGCCCAGCATATCCCTGACCTGATGCTAAGAAGCCCCGAGG
ACTGGGATGAAGAGATGGACGGAGAGTGGGAACCCCCAGTGATTCAGAACCCTGAGTACAAGGGTGAGTGGAAGC
CCCGGCAGATCGACAACCCAGATTACAAGGGCACTTGGATCCACCCAGAAATTGACAACCCCGAGTATTCTCCCG
ATCCAGTATCTATGCCTATGATAACTTTGGCGTGCTGGGCCTGGACCTCTGGCAGGTCAAGTCTGGCACCATCT
TTGACAACCTTCCTCATCACCAACGATGAGGCATACGCTGAGGAGTTTGGCAACGAGACGTGGGGCGTAACAAAGG
CAGCAGAGAAACAAATGAAGGACAAACAGGACGAGGAGCAGAGGCTTAAGGAGGAGGAAGAAGACAAGAAACGCA
AAGAGGAGGAGGAGGCAGAGGACAAGGAGGATGATGAGGACAAGATGAGGATGAGGAGGATGAGGAGGACAAGG
AGGAAGATGAGGAGGAAGATGTCCCCGCCAGGCCAAGGACGAGCTGTAGAGAGGCCTGCCTCCAGGGCTGGACT
GAGGCCTGAGCGCTCCTGCCGAGAGCTTGCCGCGCCAAATAATGTCTCTGTGAGACTCGAGA ACTTTTCATTTTT
TTCCAGGCTGGTTTCGATTTGGGGTGGATTTTGGTTTTTGGTTCCCTCCTCCACTCTCCCCACCCCTCCCCGCC
CTTTTTTTTTTTTTTTTTTAAACTGGTATTTTATCTTTGATTCTCCTTCAGCCCTCACCCCTGGTTCTCATCTTTC
TTGATCAACATCTTTTCTTGCTCTGTCCCCTTCTCTCATCTCTTAGCTCCCCTCCAACCTGGGGGGCAGTGGTG
TGGAGAAGCCACAGGCCTGAGATTTTCATCTGCTCTCCTTCCTGGAGCCAGAGGAGGGCAGCAGAAGGGGGTGGT
GTCTCCAACCCCCCAGCACTGAGGAAGAACGGGGCTCTTCTCATTTTACCCCTCCCTTTCTCCCCTGCCCCAGG
ACTGGGCCACTTCTGGGTGGGGCAGTGGGTCCCAGATTGGCTCACACTGAGAATGTAAGAACTACAAACAAAATT
TCTATTAAATTAAATTTTGTGTCTC

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FIGURE 5282

MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFY
ALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDHMGDSEYNIMFGPDICGPGTKKVHVIFNY
KGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKI
DDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWHPIDNPEYS
PDPSIYAYDNFGVLGLDLWQVKSgtIFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKK
RKEEEEAEDKEDDEDKDEDEDEEDKEEDEEDVPGQAKDEL

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FIGURE 5283

CCGGAAGTGGTCTGGCGCGCGGCGCGCGCTGGGCGCTAAGATGGCGGCGGCGTGAAGTTGCATGTTGTGTGAG
GATCCCGGGGGCGCCGCGTCTCGGGCCCCGCCATGGCCGTCAACATCACGCTCAAAACGCTGCAGCAGCAGAC
CTTCAAGATCCGCATGGAGCCTGACGAGACGGTGAAGGTGCTAAAGGAGAAGATAGAAGCTGAGAAGGGTCTGTGA
TGCCTTCCCCGTGGCTGGACAGAACTCATCTATGCCGGCAAGATCTTGAGTGACGATGTCCTATCAGGGACTA
TCGCATCGATGAGAAGAACTTTGTGGTCTCATGGTGACCAAGACCAAAGCCGGCCAGGGTACCTCAGCACCCCC
AGAGGCCTCACCCACAGCTGCCCCAGAGTCTCTACATCCTTCCCGCCTGCCCCACCTCAGGCATGTCCTATCC
CCCACCTGCCGCCAGAGAGGACAAGAGCCCATCAGAGGAATCCGCCCCACGACGTCCCCAGAGTCTGTGTCAAG
CTCTGTTCCCTCTTCAGGTAGCAGCGGGCGAGAGGAAGACGCGGCCCTCCACGCTAGTGACGGGCTCTGAGTATGA
GACGATGCTGACGGAGATCATGTCCATGGGCTATGAGCGAGAGCGGGTCTGTGGCCGCCCTGAGAGCCAGCTACAA
CAACCCCCACCGAGCCGTGGAGTATCTGCTCACGGGAATTCCTGGGAGCCCCGAGCCGGAACACGGTTCGTGTCCA
GGAGAGCCAGGTATCGGAGCAGCCGGCCACGGAAGCAGCAGGAGAGAACCCCCCTGGAGTTCCTGCGGGACCAAGCC
CCAGTTCAGAAACATGCGGCAGGTGATTACGACAGAACCTGCGCTGCTGCCCGCCCTGCTCCAGCAGCTGGGCCA
GGAGAACCCTCAGCTTTTACAGCAAATCAGCCGGCACCAAGGAGCAGTTTCATCCAGATGCTGAACGAGCCCCCTGG
GGAGCTGGCGGACATCTCAGATGTGGAGGGGGAGGTGGGCGCCATAGGAGAGGAGGCCCCGAGATGAACCTACAT
CCAGGTGACGCCGAGGAGAAAGAAGCTATAGAGAGGTTGAAGGCCCTGGGCTTCCCAGAGAGCCTGGTTCATCCA
GGCCTATTTGCGGTGTGAAAAAATGAGAACTTGGCTGCCAACTTCCTCCTGAGTCAGAACTTTGATGACGAGTG
ATGCCAGGAAGCCAGGCCACCGAAGCCCCACCTACCTTATTCATGAAAGTTTTATAAAGAAAAAATATAT
ATATATTCATGTTTATTTAAGAAATGGAAAAAATCAAAAATCTTAAAAAACAAGCAACAGTCCAGCTTCC
TGTCTCTCTAAAGTGGCCCCCTGTTCCCATCTCCGGGCCAGACAGCTGTCCCCCGTCTCTCTCCCCAGCCCAGC
CTGCTCAGAGAAGCTGGCAGGACTGGGAGGCGACAGATGGGCCCTCTTGGCCTCTGTCCCAGCTCTCTGCAGCC
AGACGGAAAGGCGGCTGCTTGCTCTCCATCCTCCGAAAAACCCCTGAGGACCCCCCCCCATCCTCTTCTAGGAT
GAGGGGAAGCTGGAGCCCCAACTTTGATCCTCCATTGGAGTGCCCAAATCTTCCATCTAGGGCAAGTCTTGAA
AGGCCAAAGGCCCTCCCCAGTCTGGCCTTGGCCTCCAGCCTGGAGAAGGGCTAACATCAGCTCATTGTCAAGG
CCACCCCCACCCAGAACAGAACCGTGTCTCTGATAAAGGTTTTGAAGTGAATAAAGTTTTAAAACT

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FIGURE 5284

MAVTITLKTLLQQQTFKIRMEPDETVKVLKEIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNFVVVM
VTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSGSVPSGSSGRE
EDAASLTVTGSEYETMLTEIMSMGYERERVVAALRASYNPHRAVEYLLTGIPGSPEPEHGSVQESQVSEQPATE
AAGENPLEFLRDQPQFQNMROVQQNPALLPALLOQLGQENPQLLQQISRHOEQFIQMLNEPPGELADISDVEGE
VGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYFACEKNENLAANFLLSQNFDDE

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FIGURE 5285

ATGGCGGCGTCCGTGCGACAGGCACGCAGCCTACTAGGTGTGGCGGCGACCCCTGGCCCCGGGTTCCTCGTGGCTAC
CGGGCGCGGCCGCCCCGCGCCGCAGGCCGGGACCCCGGTGGCCAGACCCCGAGGACCTCCTGACCCCGCGGTGG
CAGCTGGGACCGCGCTACGCGGCTAAGCAGTTCGCGCGTTACGGCGCCGCTCCGGGGTGGTCCCCGGTTCGTTA
TGGCCGTCGCCGGAGCAGCTGCGGGAGCTGGAGGCCGAAGAACGCGAATGGTACCCGAGCCTGGCGACCATGCAG
GAGTCGCTGCGGGTGAAGCAGCTGGCCGAAGAGCAGAAGCGTCGGGAGAGGGAGCAGCACATCGCAGAGTGCATG
GCCAAGATGCCACAGATGATTGTGAAC TGGCAGCAGCAGCAGCGGAGAACTGGGAGAAGGCCAGGCTGACAAG
GAGAGGAGGGCCCGACTGCAGGCTGAGGCCAGGAGCTCCTGGGCTACCAGGTGGACCCAAGGAGTGCCCGCTTC
CAGGAGCTGCTCCAGGACCTAGAGAAGAAGGAGCGCAAGCGCCTCAAGGAGGAAAAACAGAAACGGAAGAAGGAG
GCGCGAGCTGCTGCATTGGCTGCAGCTGTGGCTCAAGACCCAGCAGCCTCTGGGGCACCCAGCTCCTGA

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FIGURE 5286

CTAATTCGGGAAACGTGCACCTTGAATAATTCGGTTTTCTGTGGCTACGAGAGCAGGCTTGGCGGGCGGAGGCGC
CAGCGGATGTCTCTATGCAAGGATCGTCTCTGTGGCTAAGCCTCACTTTCCGCTCCGCCCCGGGTGCTCTCTAGAGC
CCGGTTTTTTCAGTGGCAGTCTCCAGGGCTGCCGAATACAGCAGCGATGGAGAACGGCACC GGCCCTACGGAGA
AGAACGTCCACGTGAAGTCCAGGAGACGACAGTCAACGAGGGGGCTGCCAAAATCGCCTTTCCAGTGCCAAACGA
GGTCTTTTATAACCCGGTGCAGGAATTCAATCGGGACCTGACATGTGCTGTGATCACCAGATTGCTCGCATTCA
GCTTGGGGCCAAAGGAATCCAGATCAAGGTTCCAGGAGAGAAGGACACGCAAAAAGTGGTCGTGGACTTGTCAGA
GCAAGAGGAGGAAAAGGTTGAACTGAAAGAGAGTGAACCTGGCCTCAGGAGACCAACCTCGCACAGCGGCCGT
GGGGGAGATCTGTGAGGAAGGCCTGCATGTGCTGGAAGGCCTGGCAGCTTCAGGCCTACGTTCCATTTCGATTTGC
CCTAGAGGTGCCTGGGCTCAGATCTGTGGTTGCAAACGATGCCTCCACCCGGGCTGTGGATCTCATACGCCGGAA
TGTCCAGCTCAATGACGTGGCCACCTGGTACAGCCGAGCCAAGCAGATGCCCGGATGCTGATGTACCAGCACCA
GAGGGTGTGCGAGAGGTTTGACGTCTATCGATCTGGACCCCTATGGCAGCCAGCCACCTTCTGGATGCAGCTGT
GCAGGCTGTGAGTGAAGGAGGGTTGCTGTGTGTGACCTGCACAGACATGGCGGTGTTGGCGGGGAACAGCGGGGA
GACGTGCTACAGCAAGTACGGGGCCATGGCCCTCAAGAGCCGGGCTGCCACGAGATGGCCCTGAGAATCGTCCT
GCACAGCCTGGACCTCCGCGCCAAC TGCTACCAGCGCTTCGTGGTGCCGCTGCTCAGCATCAGCGCTGACTTCTA
CGTGCGTGT TTTTGTCCGTGTCTTCACCGGCCAGGCCAAGGTCAAGGCCTCAGCCAGCAAGCAGGCGCTGGTGTT
CCAGTGTGTGGGCTGCGGGGCCTTCCACCTTCAGCGTCTCGGCAAAGCGTCAGGAGTCCCCAGCGGCCGGGCCAA
GTTCTCTGCAGCCTGTGGTCCCCCTGTGACCCCGAGTGTGAACACTGTGGGCAACGACACCAGCTTGGTGGCCC
CATGTGGGCAGAGCCCATCCATGACCTGGATTTTGTGGGCCGTGTCTGGAGGCTGTGAGCGCTAACCCCGGCCG
CTTCCACACCTCGGAGCGGATCCGAGGGTCTCTGAGCGTCATCACTGAGGAGCTCCCGGACGTGCCTCTGTACTA
CACCTGGACCAGCTGAGCAGCACCATCCACTGCAACACACCAAGCCTCCTGCAGTTGCGGTGCGCCCTCCTCCA
CGCTGACTTCCGGGTCTCACTCTCCACGCCTGTAAGAACGCTGTGAAGACGGATGCCCCTGCTCTGCCCTCTG
GGACATCATGCGTTGCTGGGAGAAGGAATGTCCGGTGAAACGGGAGCGACTATCAGAGACTAGCCAGCGTTCCG
CATTCTCAGTGTGGAGCCAGGCTGCAGGCCAACTTCACCATCCGGGAAGATGCCAACCCAGCTCCCGACAGCG
AGGACTCAAGCGCTTCCAGGCTAACCCGGAGGCCAACTGGGGTCCCCGGCCTCGTGCCCGCCAGGGGGCAAGGC
GGCCGACGAAGCTATGGAGGAGAGACGCAGGCTGCTTCAGAACAAGCGGAAGGAGCCGCCGGAAGATGTGGCCCA
GCGGGTGCCCGGCTCAAGACATTTCTTTGCAAGAGGTTTAAGGAGGGCACCTGTCAACGCGGGGACCAGTGCTG
CTACTCCACAGCCCCCGACACCCAGGGTTTCTGTGATGTGCCCCCTGACTGTCCAGAGACCTCCAACCAGAC
CCCCCTGGACCTGGGGCTGCCGCTGGGCCAGGCATAGACTGAACCAATAAAGAGATGTCACGTACCTTCAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5287

MQGSSLWLSLTFRSARVLSRARFFEWQSPGLPNTAAMENGTGPYGEERPREVQETTVEGAAKIAFPSANEVFYN
PVQEFNRDLTCAVITEFARIQLGAKGIQIKVPGEKDTQKVVVDLSEQEEKVELKESENLASGDQPRTAAVGEIC
EEGLHVLEGLAASGLRSIRFALEVPGRLSVVANDASTRAVDLIRRNVQLNDVAHLVQPSQADARMLMYQHQRVSE
RFDVIDLDPYGSPATFLDAAVQAVSEGGLLCVTCTDMAVLAGNSGETCYSKYGAMALKSRACHEMALRIVLHSLD
LRANCYQRFVVPLLSISADFYVRVFRVFTGQAKVKASASKQALVFQCVGCGAFHLQRLGKASGVPSGRAKFSAA
CGPPVTPECEHCGQRHQLGGPMWAEP IHDLD FVGRVLEAVSANPGRFHTSERIRGVLSVITEELPDVPLYTLDQ
LSSTIHCNTPSLQLRSALLHADFRVSLSHACKNAVKTDAPASALWDIMRCWEKECPVKRERLSETSPAFRILSV
EPRLQANFTIREDANPSSRQRLKRFQANPEANWGPRPRARP GGKADEAMEERRLLQNKREPPEDVAQRAAR
LKTFPCKRFKEGTCQRGDQCCYSHSPPTPRVSADAAPDCPETSNTPTPGPGAAAGPGID

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FIGURE 5288

ATGTCTCTCGAAGACCCCTTTTTGTAGTCCGAGGCGAGGTGCAGAAGGCGGTGAACACGGCCCGCGGGCTGTAC
CAGCGCTGGTGCGAGCTCCTGCAGGAAAGCGCGGCGGTTCGGACGCGAGGAGCTGGACTGGACGACCAATGAGCTG
CGGAATGGCCTGCGCAGCATCGAGTGGGACCTCGAGGACCTGGAAGAGACCATCGGTATAGTGGAAGCCAACCCA
GGCAAGTTC AAGCTCCCAGCCGGGGACCTGCAGGAGAGAAAGGTGTTCTGTGGAGCGGATGCGAGAGGCAGTCCAG
GAAATGAAGGACCATATGGTCAGCCCAACAGCCGTAGCATTTTTGGAGAGGAATAACAGAGAGATACTCGCAGGC
AAGCCAGCTGCCCAGAAGTCACCCAGCGACCTGCTGGATGCCAGCGCAGTCTCGGCCACATCTCGCTACATCGAG
GAGCAGCAGGCCACACAGCAGCTGATCATGGATGAACAGGATCAACAGCTGGAGATGGTGTCTGGGAGCATCCAG
GTTCTGAAGCACATGTCCGGCCGCGTTGGAGAAGAGCTGGACGAGCAGGGCATCATGCTGGATGCCTTCGCCCAA
GAGATGGACCACCCCAGTCCCGCATGGACGGGGTCCTCAGGAAGTTGGCCAAAGTATCCCACATGACGAGTGAC
CGCCGACAGTGGTGTGCCATCGCCGTGCTAGTGGGGTGCTTCTCCTCGTTCTCATCTTACTATTCTCTCTCTTGA

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FIGURE 5289

MSLEDPFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGRELDWTTNELRNLRSIEWDLEDLEETIGIVEANP
GKFKLPAGDLQERKVFVERMREAVQEMKDHMVSP TAVAFLEARNNREILAGKPAAQKSPSDLLDASAVSATSRYIE
EQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRLAKVSHMTSD
RRQWCAIAVLVGVLVLLVLLFSL

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FIGURE 5290

GGTTTGTGTAGAGAGGCGTGAGCGAGCCCGTTGTCCGGAGTGCACCTGCTGCCGTGTTCTGTCCCTCCCGGGAGCC
CCCGCCGCTGTGCGCCGTGAGTCGCCATGGAAGTGCAGAAAAGAGGCACAGCGCATCATGACCCGTGTCGGTGTGGA
AGATGTATCACTCCCGCATGCGAGCGCGGTGGCCTGCGGCTGCACCGGAGTCTGCAGCTGTGCTGGTCAATGCGCA
GCGCCCCGGGAGCTCTACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCCCGAGGTGTGCTTGCCGGCCGCCCTCCCT
CTGACCCCTCGCTGCACCCGCCCGAGAAAGCCGAGTCCACGGCCGAGACAGCGACCCCCGACGGTGAGCACCCGT
TTCCGGAGCCAATGGACACGCAGGAGGCGCCGACAGCCGAGGAGACCTCCGCTGCTGTGCCCCGCGCCCCGCCA
AAGTCAGCCGCAAACGACGCAGCAGCAGCCTGAGCGACGGCGGGGACGCTGGACTGGTCCCCGAGCAAGAAAGCCC
GTCTGGAAGAAAAGGAAGAAGAGGAGGGAGCGTCATCCGAAGTCGCCGATCGCCTGCAGCCCCCTCCGGCGCAAG
CGGAGGGCGCCTTTCCCAACCTGGCCCGCGTCTGCGAGGCGCTTCTCCGGCCTCCTGAACTGCAGCCCCGCGG
CCCCCTCCGACGGCGCCGCCCGCGTGCAGGCGAAAGCCCGCTTGCCGCCCGGCGGACAGCATGCTCAACGTGCTCG
TGCGGGCCGTGGTGGCCTTCTGAGGACCCCGAGCGGCGCTGCCGGAGCCCAGAGCGCGCGTCAACCGTCCGGCC
GAGGGCGCAGACCTGAGGCGAGGCCACCCCCCTCCATCCTGGGGGAAGCGCCCGCGAAAACCGTGGAGAGAAGCC
GCCGCCCGGGCTGCTGAGAGGCCCGGAGAGGGACTCTGTCCCCGGGGAGCCATCGCCTTCAGTGTGAGGGACGG
CACCGAGGAGTCTGAGCCGGGGCGCGGGCGCCTTCCGCGAGAGACCTGCGCCACAGGTGCTGTCTTAGTGGA
GGGACGTGAACCTTTTCGCTCTCCTTCTGGACTGGGAGAAGGGAGGCTTGGGTGTTGTGTTTTTGTGTTTGT
TTGTTTGTGTTTTAAAGATCTCCTCAGGGTCGGACTTCATTTTGTACTGTGGGCTGTGCTGGCCCTTTCAAGGTTT
TTCAAGAGTTGGTTTTGCGTTTTCCAACCTCGGAGAATTCCAGGCACTCCCCCTCCCCCTCCGCTGACATACTTGT
ATAAGCGGTCATCGTTGCGTCATGGGGCAGGCGTGGGGAGCTTCCTGTGCGCTTGCCTGGGTGTGGGGCCTGGGA
GGAGGTCCTGGGGCGTGCACCCGCCCTGGGCAGTGGGGAGGAGAGTGGCCTGAGTTACTTCACCCCCGCGTGTG
CTGGTTAATGTCCCGCGTCTCTGCACCTTCGGGTGGGAGCGGGGACTGATCTACTTTACATTCTCAAGTTTTTC
TCATCTGCATTAGAGGTGCCAGTAGGTTCCAGGTTCCAGCGTGCCCCCTCCCTCAGACACACGGACACAATCAG
CCGAGAAGTTCTGGTCTGAATCACGAGAATGTGGAGGGGTGGGGGTGTGAGTGGAAGGCATAAGGCTGAGCT
GAGACAGTTGCTGGTGAACTGGGCCAATCTGGGGAGGGGAACATCCTTGCCAGGGAGTTCTGAGGGTCTGCT
TTGTTTACCTTTTCGTGCGGTGGATTCTTTTTTAACCTCCGTCTACCTGGCGTTTTGTTAGAAATGTCAGATAGGAAA
ATAAAAACCATTTGAGT

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FIGURE 5291

MEVQKEAQRIMTSLVWKMYHSRMQRGGLRLHRSLQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPRLHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRPAKVSRKRRSSSLSDGGDAGLVPSKKARLEEKEEEE
GASSEVADRLQPPPAQEGAFPNLARVLQRRFSGLLNCSPAAPPTAPPACEAKPACRPADSMNLNVLVRVAVAF

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FIGURE 5292

CAAGTGC GCGCGGACCCCTAGCTCCCTCTGAGTTGCGCTGGGCTTGGCTGCTGCACCAATGACCCTGGAGGCGATC
CGCTACTCGCGGGGCTCCCTGCAGATCCTAGACCAGCTGCTGCTGCCCAAGCAGAGCCGCTACGAGGCGGTGGGC
TCGGTGCAACCAGGCCTGGGAGGCCATCCGCGCCATGAAGGTGCGGGGCGCCCCGGCCATAGCCCTGGTGGGCTGT
CTCAGCCTCGCCGTGGAGCTGCAGGCGGGCGCCGGGGGACCGGGACTCGCCGCGCTCGTGGCCTTCGTGCGCGAC
AAGCTGAGCTTCCTCGTCAACGCCCCGGCCCCACCGCTGTCAACATGGCCCCGCGCCGCCCCGCGACCTGGCTGATGTT
GCAGCCCCGGGAGGCCGAACGGGAGGGCGCTACGGAAGAGGCGGTCCGGGAGAGAGTGATCTGCTGCACCGAGGAC
ATGCTGGAGAAAAGACCTCAGAGACAACCGAAGCATTGGGGACCTAGGAGCCCGCCACCTCCTGGAGCGGGTGGCC
CCCAGCGGTGGCAAGGTGACTGTGCTGACCCACTGTAACTGGTGTCTGGCCACCGCTGGCTATGGTACAGCC
CTAGACGTGAAACGGAGCTATGCGAGCATTGGGAAGAGCATAACAGGCAGAGGGAAGTGCCACTGCGAGGGCCCC
TGGGCGGGACTGTGCTCGGTAAGCCTTTGGCAATCCACGCCAGACTAGGAGCCTGCACCCCTAACCAATGGACC
ACCCTGTCTGTTTGCCCTCCCCGGGGCCTTCTCCTGGTGGGTGGGGCCCCCGCAGGTGTGATTGCTCACTGCA
CAGCCTGGGCGCCTGGAGCATGCCCTTCTGCACAGAGACCCGGCCCTACAACCAGGGAGCCCGGCTGACGGCCTT
TGAGCTGGTCTATGAGCAGATCCC

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FIGURE 5293

MTLEAIRYSRGS LQILDQ LLLPKQSR YEAVGSVHQAW EAIRAMKV RGAPAI ALVGCLSLA VELQAGAGGPGLAAL
VAFVRDKLSFLVTARPTAVNMARAARDLADVAAREAEEREGATEEEAVRERVICCTEDMLEKDLRDNRSIGDLGARH
LLERVAPSGGKVTVLTHCNTGALATAGYGTALGVIRSLHSLGRLEHAFCTETRPYNQGARLTAFELVYEQIPATL
ITDSMVAAAMAHRGVSAVVVGADRVVANGDTANKVGTYQLAIVAKHHGIPFYVAAPSSCDLRLETGKEIIIEER
PGQELTDVNGVRIAAPGIGVWNPAFDVTPHDLITGGIITELGVFAPEELRTALTTTISRDTLDGPGQM

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FIGURE 5294

GAATTAAAAAAAAAAAAAAGCCTTATTTATTATCATTTTCCCCACCGTTGGCATGGCAACACAGGCGTATACTGA
GCTACAGGCAGCCCCGCCACCATCCCAGCCGCCACAGGCCCCGCCACAAGCCCAGCCCCAGCCGCCACCGCCACC
ACCCCCAGCGGCACCCAGCCCCCGCAGCCACCCACCGCTGCTGCCACCCCTCAGCCCCAATATGTCACCGAGCT
GCAGAGCCCCCAGCCCCAGGCACAGCCACCGGGTGCCAGAAGCAGTACGTGACGGAGCTCCCGGCTGTACCCGC
ACCCTCGCAGCCAACCGGTGCACCCACCCCTTCGCCTGCACCCAGCAGTACATCGTGGTCACTGTCTCTGAAGG
TGCCATGCGGGCCAGCGAGACAGTGTGAGGGCCAGCCCCGGCTCCACCGCCAGCCAGACCGGGCGTTCTACTCA
GGTGGTTTACGAGGTGCAGGGCACCCAGCAGCGGTGCTGGTCCAGACGAGCGTGCAGGCCAAGCCAGGCCACGT
GTCGCCCTCCAGCTGACCAACATCCAAGTGCCCCAGCAGGCTCTTCCCACGCAGCGTCTGGTGGTGCAGAGCGC
AGCCCCAGGCAGCAAAGGTGGCCAGGTCTCCCTGACGGTCCATGGTACCCAGCAGGTGCACTCGCCCCCAGAGCA
GTCGCCGGTGCAGGCCAACAGCTCTTCCAGCAAGACAGCCGGGGCCCCCACGGGCACAGTGCCACAGCAGCTGCA
GGTCCACGGCGTCCAGCAGAGTGTCCCGTCAACCAAGAGAGATCTGTGGTCCAGGCCACTCCACAAGCGCCCAA
ACCCGGCCCCGGTGCAGCCGCTGACCGTGCAGGGCTCCAGCCAGTCCACGTGGCTCAAGAGGTGCAGCAGCTCCA
GCAGGTGCCCGTCCCACACGTGTACTCCAGCCAGGTGCAGTATGTGGAGGGCGGCGATGCCAGCTACACGGCCAG
TGCCATCCGTTCCAGCACCTACTCCTATCCCCGAGACGCCGCTGTACACGCAGACGGCAAGCACCAGCTACTACGA
GGCCGCAGGCACGGCCACCCAGGTGACGACCCCCGCCACCTCCAGGCGGTGGCCAGCAGTGGCTCCATGCCCAT
GTACGTGTCCGGCAGCCAGGTGCTGCCAGCTCCACCAGCACTGGGGCTGGGGCCAGCAACAGCAGCGGAGGTGG
TGGCAGTGGTGGTGGCGGGCGGCGGGGGGAGGCGGTGGCGGGGGTGGCAGTGGCAGCACCGGAGGCGGCGGCAG
CGGAGCAGGCACCTACGTGATCCAAGGCGGTACATGCTGGGCAGTGCCAGCCAGTCTTACTCTCACACCACCCG
TGCTCGCCAGCCACGGTCCAGTGGCTCCTGGACAATATGAGACGGCTGAGGGCGTGAGTCTGCCACGGAGCAC
CCTCTACTGCCACTACTTACTGCACTGCCAGGAGCAGAAGCTGGAGCCCCGTCAACGCCGCTCCTTCGGCAAGCT
CATCCGCTCCGCTTTCATGGGCCGCGAACCCGCCGCTCTGGGCACCCAGGGGCAACTCCAAGTACCACTACTATGG
CCTGCGCATCAAGGCCAGCTCACCCCTGCTCGGGCTGATGGAGGACCAGCAGCACATGGCCATGCGGGGCCAGCC
CTTCTCGCAGAAGCAGAGGCTCAAGCCCATCCAGAAGATGGAAGGCATGACCAACGGCGTGGCGGTGGGGCAGCA
GCCGAGCACGGGGCTGTGCGACATCAGCGCCAGGTGCAGCAGTACCAGCAATTTTGGATGCCTCTCGGAGCCT
CCCTGACTTCACAGAGCTCGACCTCCAGGGCAAGGTGCTGCCTGAGGGCGTCGGGGCCGGGGACATCAAAGCCTT
CCAGGTCTGTACCGGGAACACTGTGAGGCCATTGTGACGTGATGGTGAACCTGCAGTTACCCCTGGTGGAGAC
GCTGTGGAAGACCTTCTGGAGGTACAACCTCAGCCAGCCAGTGAGGGCGCCACCGCTGGCTGTACATGACGAGGC
CGAGAAGCGACTGCCCAAAGCCATCCTGGTGCTCCTCTCCAAGTTCGAGCCCGTGTCTCAATGGACCAAGCACTG
TGACAACGTGCTGTACAGGGCCTGGTGGAAATCCTCATTCGCGACGTGCTGCGGCCATCCCCAGTGCCTTGAC
CCAAGCGATCCGGAACTTTGCCAAGAGCCTGGAGAGCTGGCTCACCACGCCATGGTCAACATCCCCGAGGAGAT
GCTGCGGGTGAAGGTGGCCGCGGCTGGCGCCTTCGCGCAGACACTGCGGCGCTACACGTGCTCAACCACCTGGC
GCAGGCGGCGCGCTGTGCTGCAGAACACCGCACAGATCAACCAGATGCTGAGCGACCTCAACCGCGTGGACTT
CGCCAACGTGCAGGAGCAGGCCTCGTGGGTGTGCCGCTGCGAGGACCGCGTGGTGCAGCGGCTGGAGCAGGACTT
CAAGGTGACGTGCAGCAGCAGAATCGCTGGAGCAGTGGGCGGCCTGGCTGGACGGCGTGGTGGAGCAGGTGCT
CAAGCCCTACAGGGCAGCGCCGCTTCCCCAAGGCCGCAAGCTCTTCTCTCAAGTGGTCTCTTCTACAGCTC
CATGGTGTATCCGGGACCTGACCTGCGCAGCGCGCCAGCTTCGGTTCCTTCCACCTCATCCGGCTGCTCTACGA
CGAGTACATGTACTACCTGATCGAGCACCGCGTAGCCCCAGGCCAAGGGCGAGACCCCCATCGCCGTGATGGGCGA
GTTCCGCAATCTGGCCACCTCCCTGAACCCCTTGACCCCGACAAAGACGAGGAGGAAGAAGAGGAGGAGGAGAG
CGAGGACGAGCTGCCGAGGACATCTCACTGGCGGCTGGCGGCGAGTCAACCGCGCTGGGCGGAGACCTGGA
GCCGCCGGCCAAGCTGGCGCGGACTGACGCGCGCGGCTCTTCGTGACGGCGCTGCCCTCCAGCTAAGCCCTTGG
CCTCCCCGCCCCACCCGCCCCCGCCACCCCTCCACGCCAGGGTCCC

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FIGURE 5295

CGCGTCCGCCGATTCCCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAAACTTCCTAGC
ACATGAGAAGATCTGGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCC
TGTGGCAGGTGCCTCCCGCCAGGAGAACGGCGCCAGCCGGAGACCACAGCGAGCTCGTTGTCCGGATCGCCAGTC
TGGAAGTGGAGAACCAGAGCCTGCGTGGCGTGGTACAGGAGCTGCAGCAGGCCATCTCCAAGCTGGAGGGCCAGC
TGAACGTGCTGGAGAAGAGCTCGCCTGGCCACCGGGCCACGGCCCCGCAGACCCAGCACGTGTCTCCTATGCGCC
AAGTGGAGTCCCCGGCCAAGAAGCCAGCCTCACCAGCAGAGGATGACGAGGATGATGACATCGACCTGTTTGGCA
GCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCGGCTACGGCAGTACGCGGAGAAGGCCA
AGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCCTTGGGACGATGAGACGGACATGGCCC
AGCTGGAGGCCTGTGTGCGCTCTATC

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FIGURE 5296

MATNFLAHEKIWFDFKFKYDDAERRFYQQMNRPVAGASRQSSGPGASSGPGSDHSELVVRIASLEVENQSLRGVVQ
ELQQAISKLEAQLNVLEKSSPGHRATAPQTQHVSPMRQVESPAKKPASPAEDDEDDIDLFGSDNEEDKEAAQL
REERLRQYAEKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIELDGLVWGTSKLMFVGYGIRKLQIQCVVE
DDKVGTYLLEEEITKFEEHVQSVDIAAFNKI

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FIGURE 5297

CCTCCTCCTTGGTCGCCGCGTCCTTGGCTGGCGTCAGAAAAATGGCTACAACTTCCTAGCACATGAGAAGATCT
GGTTTGACAAGTTCAAATATGACGACGCAGAAAGGAGATTCTATCAGCAGATGAACAGGCCTGTGGCAGGTGCCT
CCCGCCAGGAGAACGGCGCCAGCGTGATCCTCCATGACATTGCAAGAAGCCAGCCTCACCAGCAGAGGATGACGA
GGATGATGACATCGACCTGTTTGGCAGCGACAATGAGGAGGAGGACAAGGAGGCGGCACAGCTGCGGGAGGAGCG
GCTACGGCAGTACGCGGAGAAGGCCAAGAAGCCTGCATTAGTGGCCAAGTCCTCCATCCTGCTGGATGTCAAGCC
TTGGGACGATGAGACGGACATGGCCCAGCTGGAGGCCTGTGTGCGCTCTATCGAGCTGGACGGGCTGGTCTGGGG
GACCTCCAAGCTGATGCCCCTGGGCTACGGTATCCGGAAGCTACAGATTCACTGTGTGGTGGAGGACGACAAGGT
GGGGACTTACTTGCTGGAGGAGGAGATCACTAAATTTGAGGAGCACGTGCAGAGTGTGATATCGCAGCTTTCAA
CAAGATCTGAAGCCTGAGTGTGTGTATGTGTGCGCTGCGTAAGGCCCTGCCACGATTAAAGACTGAGACCGGC

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FIGURE 5298

CAGTGXGCTCCGGGCGCCGGCCGCGCAGCCAGCACCCGCCGCGCCGAGCTCCGGGACCGGCCCCGGCCGCCGCCG
CCGCGATGGGCAACGCCGCCGCCGCCAAGAAGGGCAGCGAGCAGGAGAGCGTGAAAGAATTCTTAGCCAAAGCCA
AAGAAGATTTTCTTAAAAAATGGGAAAGTCCCCTCAGAACACAGCCCACTTGATCAGTTTGAACGAATCAAGA
CCCTCGGCACGGGCTCCTTCGGGCGGGTGATGCTGGTGAACACAAGGAGACCGGGAACCACTATGCCATGAAGA
TCCTCGACAAACAGAAGGTGGTGAACAGATCGAACACACCCTGAATGAAAAGCGCATCCTGCAAGCTG
TCAACTTTCCGTTTCTCGTCAAACCTCGAGTTCTCCTTCAAGGACAACCTCAAACCTATACATGGTCATGGAGTACG
TGCCCGGCGGGGAGATGTTCTCACACCTACGGCGGATCGGAAGGTTCACTGAGCCCCATGCCCGTTTCTACGCGG
CCCAGATCGTCTTGACCTTTGAGTATCTGCACTCGCTGGATCTCATCTACAGGGACCTGAAGCCGGAGAATCTGC
TCATTGACCAGCAGGGCTACATTAGGTGACAGACTTCGGTTTCGCCAAGCGCGTGAAAGGCCGCACTTGACCT
TGTGCGGCACCCCTGAGTACCTGGCCCTGAGATTATCCTGAGCAAAGGCTACAACAAGCCGTGGACTGGTGGG
CCCTGGGGGTCTTATCTATGAAATGGCCGCTGGCTACCCGCCCTTCTTCGCAGACCAGCCCATCCAGATCTATG
AGAAGATCGTCTCTGGGAAGGTGCGCTTCCCTTCCCACCTTCAGCTCTGACTTGAAGGACCTGCTGCGGAACCTCC
TGCAGGTAGATCTCACCAAGCGCTTTGGGAACCTCAAGAATGGGGTCAACGATATCAAGAACCACAAGTGGTTTG
CCACAACCTGACTGGATTGCCATCTACCAGAGGAAGGTGGAAGCTCCCTTCATACCAAAGTTTAAAGGCCCTGGGG
ATACGAGTAACTTTGACGACTATGAGGAAGAAGAAATCCGGGTCTCCATCAATGAGAAGTGTGGCAAGGAGTTT
CTGAGTTTTAGGGGCATGCCTGTGCCCCCATGGGTTTTCTTTTTCTTTTTCTTTTTTGGTGGGGGGGTGG
GAGGGTTGGATTGAACAGCCAGAGGGCCCCAGAGTTCTTGCATCTAATTTACCCCCACCCACCTCCAGGGT
TAGGGGGAGCAGGAAGCCAGATAATCAGAGGGACAGAAACACCAGCTGCTCCCCCTCATCCCTTCACCTCCT
GCCCCCTCTCCCACCTTTTCCCTTCTCTTCCCCACAGCCCCCAGCCCCCAGCCCTCCAGCCCACTCTGCC
TGTTTTAAACGAGTTTCTCAACTCCAGTCAGACCAGGTCTTGCTGGTGTATCCAGGGACAGGGTATGGAAAGAGG
GGCTCACGCTTAACCTCCAGCCCCCACCACACCCCATCCACCCAACCACAGGCCCCACTTGCTAAGGGCAAAT
GAACGAAGCGCCAACCTTCTTTTCGGAGTAATCTGCTGGGAAGGAGAGATTTTAGTGACATGTTCACTGGGT
TGCTTGCTAGAATTTTTTTAAAAAACAACAATTTAAATCTTATTTAAGTTCACCAAGTGCTCCCTCCCTCCT
TCCTCTACTCCCACCCCTCCCATGTCCCCCATTCCTCAAATCCATTTTAAAGAGAAGCAGACTGACTTTGAAA
GGGAGGCGCTGGGGTTTGAACCTCCCCGCTGCTAATCTCCCTGGGCCCCCTCCCCGGGGAATCCTCTCTGCCAAT
CCTGCGAGGGTCTAGGCCCTTTAGGAAGCCTCCGCTCTCTTTTTCCCCAACAGACCTGTCTTACCCTTGGGCT
TTGAAAGCCAGACAAAGCAGCTGCCCTCTCCCTGCCAAAGAGGAGTCAATCCCCAAAAAGACAGAGGGGGAGCC
CCAAGCCCAAGTCTTCTCCAGCAGCGTTTCCCCCAACTCCTTAATTTTATTCTCCGCTAGATTTTAACGTC
CAGCCTTCCCTCAGCTGAGTGGGAGGGCATCCCTGCAAAAGGGAACAGAAGAGGCCAAGTCCCCCAAGCCACG
GCCCCGGGTTCAAGGCTAGAGCTGCTGGGAGGGGCTGCCTGTTTTACTACCCACCAGCTTCCGCTCCCCCAT
CCTGGGCGCCCTCCTCCAGCTTAGCTGTGAGCTGTCCATCACCTCTCCCCACTTTCTCATTTGTGCTTTTTTC
TCTCGTAATAGAAAAGTGGGAGCCGCTGGGAGCCACCCATTCAATCCCGTATTTCCCCCTCTCATAACTTCT
CCCCATCCAGGAGGAGTTCTCAGGCCTGGGGTGGGGCCCCGGGTGGGTGCGGGGCGATTCAACCTGTGTGCTG
CGAAGGACGAGACTTCTCTTGAACAGTGTGCTGTGTGAACATATTTGAAAATATTACCAATAAAGTTTGT

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FIGURE 5299

MGNAAAAKKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHLQFERIKTLGTGSFGRVMLVKHKETGNHYAMKIL
DKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMVMYVPGGEMFSLRRIGRFSEPHARFYAAQ
IVLTFEYLLHSLDLIYRDLKPENLLIDQQGYIQVTDGFAKRVKGRTWTLCGTPEYLAPEIILSKGYNKAVDWWAL
GVLIYEMAAGYPPFFADQPIQIYEKIVSGKVRFPSSHSSDLKDLLRNLLQVDLTKRFGNLKNGVNDIKNHKWFAT
TDWIAIYQRKVEAPFIPKFKGPGDTSNFDDEEEEEIRVSINEKCGKEFSEF

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FIGURE 5300

AGATTTGAAGGCGGCGCGGACTAGGTGCGCACTTCAGTTCTCGGAGAGAAGAGGCGGGAGTGACCTGGTCAG
CCCTACCCCACTGACCCCAACCGGACCCAGGCGCGGCCTCCGCCACAGCCACAGCCCCCTGCCCCCTGCTGCGGCGCG
GCGAGGCGAGGCGCATGGCCAAGGTGTCGGTGCTGAACGTGGCGGTCTTGGAGAACCCGAGCCCTTTCCACAGCCC
CTTCCGGTTCGAGATCAGCTTCGAGTGCAGTGAAGCCCTGGCGGACGACCTGGAGTGGAAGATCATTATGTTGG
CTCGGCTGAGAGTGAGGAATTTGATCAGATCCTAGACTCGGTGCTGGTGGGCCCTGTGCCAGCAGGGAGACACAT
GTTTGTCTTTAGGCGGACGCCCCCAACCCATCCCTCATCCCAGAGACTGATGCCGTGGGTGTGACTGTGGTCCT
CATCACCTGCACCTACCATGGACAGGAGTTTCATCCGAGTGGGCTACTACGTCAACAACGAGTACCTCAACCCCTGA
GCTGCGTGAGAACCCGCCCATGAAGCCAGATTTCTCCAGCTCCAGCGGAACATCTTGGCCTCGAACCCCCGGGT
GACCCGCTTCCATATCAACTGGGACAACAACATGGACAGGCTGGAGGCCATAGAGACCCAGGACCCCTCCCTGGG
CTGCGGCCTCCCACTCAACTGCACTCCTATCAAGGGCTTGGGGCTCCCTGGCTGCATCCCTGGCCTCCTCCCTGA
GAACTCCATGGACTGCATCTAACTGCAGGAACCCAGAGTGTCCAGCACGCCGGGAGGGGCAACCAGGCCTCCCA
GCGAGTCCTGCAGGGCCCATCTAGAGGACTTTGGGGGCCATCAGCTGCAATCCAGGTCTGTCAAACCTCAGCCCCCT
AGGAAAGAACAGGCCTTGGGTCTCCCCTAGTCCTGGCCAGAAGGATGATCTCGCTTTTCTCTACAGGCCTATAA
GAAGCAGGTACTTCAGTTCTAAATTCTGACTTGTGTTCTTTTCGTCTTCATAAATTCTAACTAAGGCCACTGTGC
CACTGTGCACCCTTGAGTACCATTGATCCAAAGCTTTCCACAGACCTCCCTGGCCACCTAGAGGCTTTCTTGG
TCAGTGCCTGTCAAGGCTCCAGTCCTGCTGAGCCAAAGGCTTTGTCAATTCCTTTCTCTTCTGTACATCTGAGCA
GACCCACTCCAGCTTTCTGGTGTACAGGCGGGAATGTTAGTTAGTAGGTAGACTTAGATCCCATTTCTGTCCCTG
CTCCCAGGAAGATTCTTAGGTCTCTTCAATCCAGCAGCCCTCCAGAGGTGTGATCAGCAGGATGCTGAGGAA
CCATGTTGCCTTTCTGTCAATCACAGCCACCTTCTGTTATCTCTAAATGGATCTGGCTTTTCTGGAGGCTG
CCATGGTTGGAAGATGGTATCAGAGGGCCTGCCTGGGCAGTCTGTCTCCGGGCCAGGCTCAGGGACCCCTGTCCT
CTGGCAGCCTTAACCTGTCTCTGCTAGGACCAGGCTGATTTCAAGCCAGGGAAGCAACTGGGACCCTGAAAACCT
GTCCCTCCCCAGCCGCTCCCCCTCTCTGTGCCCTGGTCCCCTTGCCGCCATGTGGATGCTGTTGTGATTGCTGT
TTGTATATTATCAAAATGTTTTATATTAAAAATGTTTGGTCTGAAAATT

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FIGURE 5301

MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSASEEFDQILDVSVLVGPVPAGRHMVFVQ
ADAPNPSLIPETDAVGVTVVLITCTYHGQEFIRVGYYVNNYLNPELRENPPMKPDFSQLQRNILASNPRVTRFH
INWDNNMDRLEAIETQDPSLGCGLPLNCTPIKGLGLPGCIPGLLPENSMDCI

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FIGURE 5302

GGAAGCGCAGCAACTCGTGTCTGAGCGCCCGGCGGAAAAACCGAAGTTGGAAGTGTCTCTTAGCAGCGCGCGGAGA
AGAACGGGGAGCCAGCATCATGGCAGAACAGGATGTGGAAAACGATCTTTTGGATTACGATGAAGAGGAAGAGCC
CCAGGCTCCTCAAGAGAGCACACCAGCTCCCCCTAAGAAAGACATCAAGGGATCCTACGTTTCCATCCACAGCTC
TGGCTTCCGGGACTTTCTGCTGAAGCCGGAGCTCCTGCGGGCCATCGTGGACTGTGGCTTTGAGCATCCTTCTGA
GGTCCAGCATGAGTGCATTCCCCAGGCCATCCTGGGCATGGACGTCTGTGCCAGGCCAAGTCCGGGATGGGCAA
GACAGCGGTCTTCGTGCTGGCCACCCTACAGCAGATTGAGCCTGTCAACGGACAGGTGACGGTCTGTCATGTG
CCACACGAGGGAGCTGGCCTTCCAGATCAGCAAGGAATATGAGCGCTTTTCCAAGTACATGCCCAGCGTCAAGGT
GTCTGTGTTCTTCGGTGGTCTCTCCATCAAGAAGGATGAAGAAGTGTGAAGAAGAACTGTCCCCATGTCGTGGT
GGGGACCCCGGGCCGCATCCTGGCGCTCGTGCAGGAATAGGAGCTTCAGCCTAAAGAATGTGAAGCACTTTGTGCT
GGACGAGTGTGACAAGATGCTGGAGCAGCTGGACATGCGGCGGGATGTGCAGGAGATCTTCGCCTGACACCACA
CGAGAAGCAGTGCATGATGTTTACGCGCCACCCTGAGCAAGGACATCCGGCCTGTGTGCAGGAAGTTTATGCAGGA
TCCCATGGAGGTGTTTGTGGACGACGAGACCAAGCTCACGCTGCACGGCCTGCAGCAGTACTACGTCAAACCTCAA
AGACAGTGAGAAGAACCGCAAGCTCTTTGATCTCTTGGATGTGCTGGAGTTTAACCAGGTGATAATCTTCGTCAA
GTCAGTGCAGCGCTGCATGGCCCTGGCCAGCTCCTCGTGGAGCAGAACTTCCCGGCCATCGCCATCCACCGGGG
CATGGCCCAGGAGGAGCGCCTGTCACGCTATCAGCAGTTCAAGGATTTCCAGCGGCGGATCCTGGTGGCCACCAA
TCTGTTTGGCCGGGGGATGGACATCGAGCGAGTCAACATCGTCTTTAACTACGACATGCCTGAGGACTCGGACAC
CTACCTGCACCGGGTGGCCCGGGCGGGTCTGCTTTGGCACCAGGCGCTAGCCATCACTTTTGTGTCTGACGAGAA
TGATGCCAAAATCCTCAATGACGTCCAGGACCGGTTTGAAGTTAATGTGGCAGAACTTCCAGAGGAAATCGACAT
CTCCACATACATCGAGCAGAGCCGGTAACCACCACGTGCCAGAGCCGCCACCCGGAGCCGCCCGCATGCAGCTT
CACCTCCCCTTTCCAGGCGCCACTGTTGAGAAGCTAGAGATTGTATGAGAATAAACTTGTATTATG

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FIGURE 5303

ACGCGCGCTCCTCTGGCCGCCCTCCCTCCGCGCGGGGACCCCTGGCGGGCGGCAGGAGGACATGGCCAGCGACG
CCGTGCAGAGTGAGCCTCGCAGCTGGTCCCTGCTAGAGCAGCTGGGCCTGGCCGGGGCAGACCTGGCGGCCCCCG
GGGTACAGCAGCAGCTGGAGCTGGAGCGGGAGCGGCTGCGGCGGGAAATCCGCAAGGAGCTGAAGCTGAAGGAGG
GTGCTGAGAACCTGCGGCGGGCCACCACTGACCTGGGCGCAGCCTGGGCCCCGTAGAGCTGCTGCTGCGGGGCT
CCTCGCGCCGCTCGACCTGCTGCACCAGCAGCTGCAGGAGCTGCACGCCCACGTGGTGCTTCCCGACCCGGCGG
CCACCCACGATGGCCCCCAGTCCCCTGGTGCGGGTGGCCCCACCTGCTCGGCCACCAACCTGAGCCGCGTGCCG
GCCTGGAGAAGCAGTTGGCCATTGAGCTGAAGGTGAAGCAGGGGGCGGAGAACATGATCCAGACCTACAGCAATG
GCAGCACCAAGGACCGGAAGCTGCTGCTGACAGCCCAGCAGATGTTGCAGGACAGTAAGACCAAGATTGACATCA
TCCGCATGCAACTCCGCCGGGCGCTGCAGGCCGGCCAGCTGGAGAACCAGGCAGCCCCGGATGACACCCAAGGGA
GTCCTGACCTGGGGGCTGTGGAGCTGCGCATCGAAGAGCTGCGGCACCACTTCCGAGTGGAGCACGCGGTGGCCG
AGGGTGCCAAGAACGTACTGCGCTGCTCAGCGCTGCCAAGGCCCGGACCGCAAGGCAGTCAGCGAGGCCCAGG
AGAAATTAACAGAATCCAACCAGAAGCTGGGGCTGCTGCGGGAGGCTCTGGAGCGGAGACTTGGGGAGCTGCCCG
CCGACCACCCCAAGGGGCGGCTGCTGCGAGAAGAGCTGCTGCGGCCTCCTCCGCTGCCTTACGACCCCGCTTG
CCGGGCCCTTTCCCGCCACGCACTACAGCACCTGTGCAAGCCCCGCGCCGCTCACAGGGACCCCTGGAGGTACGAG
TGGTGGGCTGCAGAGACCTCCAGAGACCATCCCGTGGAACCCCTACCCCTCAATGGGGGGACCTGGGACCCAG
ACAGCCGCCCCCTTCTGAGCCGCCAGCCCGGGGCTTTACAGCCGAAGCGGAAGCCTCAGTGGCCGGAGCA
GCCTCAAAGCAGAAGCCGAGAACACCACTGAAGTCAGCACTGTGCTTAAGCTGGATAACACAGTGGTGGGGCAGA
CGTCTTGGAAGCCATGTGGCCCCAATGCCTGGGACCAGAGCTTCACTCTGGAGCTGGAAAGGGCACGGGAACCTGG
AGTTGGCTGTGTTCTGGCGGGACCAGCGGGGCTGTGTGCCCTCAAATTCTGAAGTTGGAGGATTTCTTGGACA
ATGAGAGGCATGAGGTGCAGCTGGACATGGAACCCAGGGCTGCCTGGTGGCTGAGGTACCTTCCGCAACCCCTG
TCATTGAGAGGATTCTCGGCTCCGACGGCAGAAGAAAATTTCTCCAAGCAGCAAGGGAAGGCGTTCCAGCGTG
CTAGGCAGATGAACATCGATGTGCGCCACGTGGGTGCGGCTGCTCCGGAGGCTCATCCCCAATGCCACGGGCACAG
GCACCTTTAGCCCTGGGGCTTCTCCAGGATCCGAGGCCCGGACCAGGGTGACATATCGGTGGAGAAGCTGAACC
TCGGCACTGACTCGGACAGCTCACCTCAGAAGAGCTCGCGGGATCCTCCTTCCAGCCCATCGAGCCTGAGCTCCC
CCATCCAGGAATCCACTGCTCCCGAGCTGCCTTCGGAGACCCAGGAGACCCAGGCCCGCCCTGTGCAGCCCTC
TGAGGAAGTCACCTCTGACCTCGAAGATTTCAAGTTCTTGGCGGTGCTGGGCCGGGGTCATTTTGGGAAGGTGC
TCCTCTCCGAATTCGGGCCAGTGGGGAGCTGTTGCGCCATCAAGGCTCTGAAGAAAGGGGACATTGTGGCCCGAG
ACGAGGTGGAGAGCCTGATGTGTGAGAAGCGGATATTGGCGGCAGTGACCAGTGCGGGACACCCCTTCTGGTGA
ACCTCTTCGGCTGTTTCCAGACACCGGAGCACGTGTGCTTCGTGATGGAGTACTCGGCCGGTGGGGACCTGATGC
TGCACATCCACAGCGACGTGTTCTCTGAGCCCCGTGCCATCTTTTATTCCGCTGCGTGGTGCTGGGCCTACAGT
TTCTTCACGAACACAAGATCGTCTACAGGGACCTGAAGTTGGACAATTTGCTCCTGGACACCGAGGGCTACGTCA
AGATCGCAGACTTTGGCCTCTGCAAGGAGGGGATGGGCTATGGGGACCGGACCAGCACATTCTGTGGGACCCCGG
AGTTCTTGGCCCCCTGAGGTGCTGACGGACACGTGCTACACGCGAGCTGTGGACTGGTGGGGACTGGGTGTGCTGC
TCTACGAGATGCTGGTTGGCGAGTCCCCATTCCAGGGGATGATGAGGAGGAGGTCTTCGACAGCATCGTCAACG
ACGAGGTTGCTACCCCCGCTTCTGTGCGCCGAAGCCATCGGCATCATGAGAAGGCTGCTTCGGAGGAACCCAG
AGCGGAGGCTGGGATCTAGCGAGAGAGATGCAGAAGATGTGAAGAAACAGCCCTTCTTCAGGACTCTGGGCTGGG
AAGCCCTGTTGGCCCGGCGCCTGCCACCGCCCTTTGTGCCACGCTGTCCGGCCGCACCGACGTACGCAACTTCG
ACGAGGAGTTACCGGGGAGGCCCCACACTGAGCCCGCCCCGCGACGCGCGGCCCTCACAGCCGCGGAGCAGG
CAGCCTTCTTGGACTTCGACTTCGTGGCCGGGGGCTGCTAGCCCCCTCCCCTGCCCTGCCCTGCCCTGCCCTGCCG
AGAGCTCTTAGTTTTTAAAAAGGCCTTTGGGATTTGCCGG

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FIGURE 5304

MASDAVQSEPRSWSLLEQLGLAGADLAAPGVQQQLELERERLRREIRKELKLKEGAENLRATTDLGRSLGPVEL
LLRGSSRRDLLHQQLQELHAHVLPDPAATHDGPQSPGAGGPICSATNLSRVAGLEKQLAIELKVKGGAENMIQ
TYSNGSTKDRKLLLTAAQMLQDSKTKIDIIRMQLRRALQAGQLENQAAPDDTQGSDDLGAVELRIEELRHHFRVE
HAVAEGAKNVLRLLSAAKAPDRKAVSEAQEKLTESNQKLGLLREALERRLGELPADHPKGRLLREELAAASSAAF
STRLAGPFPATHYSTLCKPAPLTGTLEVRVVGCRDLPETIPWNPTPSMGGPGTDPDSRPPFLSRPARGLYSRSGSL
SGRSSLKAEAEANTSEVSTVLKLDNTVVGQTSWKPCGPNAWDQSFTLELERARELELAVFWRDQRLCALCKFLKLE
DFLDNERHEVQLDMEPQGCLVAEVTFRNPVIERIPRLRRQKKIFSKQQGKAFQARQMNIDVATWVRLRLRLIPN
ATGTGTFSPGASPGSEARTTGDISVEKLNLTGDSOSSPQKSSRDPPSSPSLSSPIQESTAPELPSETQETPGA
LCSPLRKSPLTLEDFKFLAVLGRGHFGKVLLSEFRPSGELFAIKALKKGDIVARDEVESLMCEKRILAAVTSAGH
PFLVNLFQCFQTPHEVCFVMEYSAGGDLMLHIHSDVFSEPRAFYFYSACVVLGLQFLHEHKIVYRDLKLDNLLD
EGYVKIADFGLCKEGMGYGDRTSTFCGTPEFLAPEVLTDTSYTRAVDWWGLGVLLYEMLVGESFPFGDDEEEVFD
SIVNDEVRYPRFLSAEAGIMRRLRRNPERRLGSSERDAEDVKKQPFRTLGWEALLARRLPPPFVPTLSGRTD
VSNFDEEFTGEAPTLSPPRDARPLTAAEQAAFLDFDFVAGGC

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FIGURE 5305

CACGGGGAGGCGGAGGCAGCGGGCGGCGGGCGGCGGGCGGCGGGCGGCGGAGCAGATCTTCTGGTGACCCAC
TTCTCGCTGCTCATGCCGCTGGGACTGGGGCGGCGGAAAAAGGCGCCCCCTCTAGTGGAAAATGAGGAGGCTGAG
CCAGGCCGTGGAGGGCTGGGCGTGGGGGAGCCAGGGCCTCTGGGCGGAGGTGGGTGGGGGGGCCCCAAATGGGC
TTGCCCCCCCCCTCCCCAGCCCTGCGGCCCCGCGCTCGTGTTCCACACCCAGCTGGCCCATGGCAGTCCCCTGGC
CGCATCGAGGGCTTCACCAACGTCAAGGAGCTGTATGGCAAGATCGCCGAGGCCTTCCGCCTGCCAACTGCCGAG
GTGATGTTTCTGCACCCTGAACACCCACAAAGTGGACATGGACAAGCTCCTGGGGGGCCAGATCGGGCTGGAGGAC
TTCATCTTCGCCCCACGTGAAGGGGCGAGCGCAAGGAGGTGGAGGTGTTCAAQTCGGAGGATGCACTCGGGCTCACC
ATCAGCGACAACGGGGCTGGCTACGCCTTCATCAAGCGCATCAAGGAGGGGAGCGTGATCGACCACATCCACCTC
ATCAGCGTGGGCGCATGATCGAGGCCATTAACGGGCGAGGCCTGCTGGGCTGCCGGCACTACGAGGTGGCCCCGG
CTGCTCAAGGAGCTGCCCCGAGGCCGTACCTTCACGCTGAAGCTCACGGAGCCTCGCAAGGCCTTCGACATGATC
AGCCAGCGTTTCAGCGGGTGGCCGCCCTGGCTCTGGCCCCACAACCTGGGCACTGGCCGAGGGACCCTGCGGCTCCGA
TCCCCGGGGCCCCGCCACGGTGGAGGATCTGCCCTCTGCCTTTGAAGAGAAGGCCATTGAGAAGGTGGATGACCTG
CTGGAGAGTTACATGGGTATCAGGGACACGGAGCTGGCGGCCACCATGGTGGAGCTGGGAAAGGACAAAAGGAAC
CCGGATGAGCTGGCCGAGGCCCTGGACGAACGGCTGGGTGACTTTGCCTTCCCTGACGAGTTCGTCTTTGACGTC
TGGGGCGCCATTGGGGACGCCAAGGTCGGCCGCTACTAGGACTGCCCCGGACCCTGCGATGATGACCCGGGCGC
AACCTGGTGGGGGCCCCCAGCAGGGACACTGACGTCAGGACCCGAGCCTCCAGCCTGAGCCTAGCTCAGCAGCCC
AAGGACGATGGTGAGGGGAGGTGGGGCCAGGCCCCCTGCCCGCTCCAATCGGTACCATCCCCCTCCCTGGTTCCC
AGTCTGGCCGGGGTCCCCGGCCCCCTGTGCCCTGTTCCCCACCTACCTCAGCTGGGTGAGGCACAGGGAGGGGA
GGGATCAGCCAAATTGGGCGGCCACCCCGCCTCCACCACTTTCCACCATCAGCTGCCAAACTGGTCCCTCTGTC
TCCCTGGGGCCTTGGGTTCTGTTTGGGGGTGATGACCTTCCTAGTTTCCTGACGCAGGGAATACAGGGGAGAGGG
TTGTCCTTCCCCCAGCAAATGCAATAATGCCCTCACCCCTCCTGAGAGGAGCCCCCTCCCTGTGGAGCCTGTTA
CCTCCGATTTGACACGAGTCTGCTGTGAACCCCGCAACCTCCTCCCCACCTCCCATCTCTCCTTCCAGGCCCAT
CCCTGGCCCAGAGCAGGAGGGAGGGAGGGACGATGGCGGTGGGTTTTTGTATCTGAATTTGCTGTCTTGAACATA
AAGAATCTATCTGCTGTT

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FIGURE 5306

MPLGLGRRKKAPPLVENEAEPEGRGGLGVGEFGPLGGGSGGPGMGLPPPPPALRPRLVFHTQLAHGSPTGRIEG
FTNVKELYGKIAEAFRLPTAEVMFCTLNTHKVDMDKLLGGQIGLEDFIFAHVKGQRKEVEVFKSEDALGLTITDN
GAGYAFIKRIKEGSVIDHIHLISVGDMIEAINGQSLGCRHYEVARLLKELPRGRTFTLKLTEPRKAFDMISQRS
AGGRPGSGPQLGTGRGTLRLRSRGPATVEDLPSAFEEKAIEKVDDLLESYMGIRDTELAATMVELGDKRNPDEL
AEALDERLGDFAFPDEFVFDVWGAIGDAKVGRY

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FIGURE 5307

GTTTAGTCTATCGCTGCGGTTGCGAGCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGC
GGAGCAGTAGCCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAA
GCTGTGTTTCTTGGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAACCTCTTCACTAAGACCCATCC
GCAGTGGTACCCCGCCCGCCAGTCCCTCCGCTGGACCCCAAGGGCAAGTCCCTGAAGGATGAGGATGTTTCTGCA
GAAGCTGCCCGTGGGCACACGCCACACTGTACTTCCGGGACCTGGGGGCCCAGATCAGCTGGGTGACGGTCTT
CCTAACAGAGTACGCGGGGCCCTTTTTCATCTACCTGCTCTTCTACTTCCGAGTGCCCTTCATCTATGGCCACAA
ATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTCACTCATTCCACTACATCAAGCG
CCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGCACTATGCCTTTGCGCAACATCTTCAAGAACTGCAC
CTACTACTGGGGCTTCGCCGCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGC
TCAGCAGGTGAAACTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCG
GGACCTGCGGGCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTCACGTGGCTCTTCCT
GCTGGTGTCTGCCCCAACTACACCTACGAGGTGGGGTCTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCC
AGTGGCCCTGTTCTCCCTGGTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAA
GGAGTTCGGGACTACCCGCCCCTGCGCATGCCATCATCCCTTCCTGCTCTGAGCGCTCACCCCTGCTGAGGC
TCAGCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCACAGCTCTCCAGCACCCGGAATAAAGCCCGC
CTGCCCCAGTC

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FIGURE 5308

GGCACGAGGCGGGGCGCCGCTGAGCCAAGTGGGCCACCCGGGCACGGCCACGCTCCCGGGTCACGTGACACGGAG
GGGGCCGAATTCTGCTGGAGGCAGCGCCATATCCTGGAGGTGAAGGTACCACCTCATGGGAGACCCCCGCGGCCGC
CGCCCCCGCTGGGAGCTTATTCCCTCCTTCTGCTCCTGGCCTGCGGGACGCTGGTGGCCGCCTTGCTGGGGCGC
CGCTCACCGCCTGGGGCTCTTCTATCAGCTGCTGCACAAGGTGGACAAGGCAAGCGTCCGGCATGGCGGAGAGAA
CGTGGCCGCTGTGCTGAGGGCCCATGGTGTGCGGTTTCATCTTCACGCTGGTGGTGGGCACATTTCCCCGCTGCT
GGTGGCCTGTGAGAACTGGGCATCCGTGTGGTGGACACACGCCATGAGGTACAGGCCGTCTTTGCTGCTGATGC
TATGGCCCCGCTGTCCGGGACGGTGGGCGTGGCGGCAGTGACAGCAGGCCCTGGCCTCACCAACACGGGTGACTGC
GGTGAAGAATGCTCAGATGGCTCAGTCCCCAATCCTGCTTCTGGGTGGGGCTGCCAGCACTCTGCTGCAGAACCG
GGGTGCGCTCCAGGCTGTTGATCAGCTGTCCCTTTTCCGGCCACTCTGTAAGTTTTGTGTGCTGTGCGGAGGGT
GCGGGACATTGTGCCACCCTGAGGGCCGCGATGGCTGCCGCCAGTCGGGCACCCCAAGTCCGGTGTGTTGTGGA
GCTGCCCCGTTGACGTGCTGTACCCCTACTTCATGGTCCAGAAGGAGATGGTGCCAGCCAAGCCACCAAGGGCCT
CGTGGGCCGAGTGGTCTCCTGGTATTTAGAGAATTACCTGGCCAACCTCTTTGACAGGAGCCTGGGAGCCTCAGCC
CGAGGGACCGCTGCCCTGGACATCCCCAGGCTTCCCCGACAGGTTACGCGCTGTGTGGAGATCCTGAGCCG
GGCCAAGAGGCCTCTGATGGTGTGGGAGTCAGGCCCTGCTCACCCCAACGTCTGCCGACAAGCTTCGGGCTGC
CGTGGAGACCTTGGGTGTTCCCTGCTTCCCTGGAGGGATGGCACGGGGCTGTTAGGCCGCAACCACCCCTCCA
CATCCGGGAGAACCAGTGCAGGCCCTGAAGAAGGCGGACGTCAATTGTCCTAGCAGGAAGTGTGTGTGACTTCCG
CCTATCCTATGGCCGTGTCTCAGCCACAGCAGCAAGATCATCATCGTCAATCGTAATCGGGAAGAGATGTTGCT
CAACTCAGACATCTTCTGGAAGCCCCAGGAGGCTGTGCAGGGAGATGTGGGTTCCCTTCGTGCTGAAGTTAGTGGA
GGGCTTCAGGGCCAGACCTGGGCCCCAGACTGGGTGGAGGAGCTGCGGGAAGCCGACCGGCAGAAGGAGCAGAC
CTTTCGGGAGAAGGCAGCGATGCCTGTGGCCAGCACCTGAACCCAGTGCAGGTGCTGCAGCTGGTGGAGGAAAC
GCTACCTGACAACTCAATTCTGGTGGTGGATGGCGGGGACTTCGTGGGCACTGCTGCCCATCTGGTACAGCCCCG
CGGCCCCCTGCGCTGGCTCGATCCTGGGGCCTTTGGGACTCTGGGAGTTGGTGAGGATTGCACTTGGGGCCAA
GCTGTGCCGGCCAGATGCTGAGGTCTGGTGCCTGTTTGGGACGGAGCTTTTGGCTACAGCCTCATCGAATTTGA
TACATTGCTCAGACACAAGATCCAGTGATGGCCTTGGTAGGGAATGATGCTGGCTGGACACAGATTTCTCGGGA
GCAGGTGCCCTCTCTGGGCAGCAACGTGGCCTGTGGCCTGGCCTACACTGATTATACAAGGCAGCCATGGGTCT
GGGGGCCCCGGGCTTGGTCTCTCACGGGAGAACGAGGATCAGGTGGTCAAGGTGCTGCACGATGCCAGCAGCA
GTGCCGAGACGGCCACCCGTTGTGGTCAACATCCTCATTGGGAGGACGGACTTCCGCGATGGCTCCATTGCTGT
ATAGGGCCTTGTGGGTGAGGACGCTTGGCTGCCTTCCCTCCCTGGACTGTGTCCAGCTGGTTTGGAGTCTCATC
ATTGCTTGGCCTGGGCTATCCATGAGGCCAGTGACTCCACAACCTCCCTGAGGAGGGGATGGAGGGGTCAA
TCTCAGAGAGGCTCTCTTGTGAGCTCTTGGACCCTCCTCTTACGGACCCAACGTGTGCCGTTTGTCCCTCTCTT
ATGGAGACTGAATAAACACCTCTGGCCCATGTAGGCCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5309

METPAAAAPAGSLFPSFLLACGTLVAALLGAAHRLGLFYQLLHKVDKASVRHGGENVAAVLAHGVRFIFTLVG
GHISPLL VACEKLGIRVVDTRHEVTAVFAADAMARLSGTVGVAAVTAGPGLTNTVTAVKNAQMAQSPILLGGAA
STLLQNRGALQAVDQLSLFRPLCKFCVSVRRVRDIVPTLRAAMAAQSGTPGPVFVELPVDVLYPYFMVQKEMVP
AKPPKGLVGRVSWYLENYLANLFAGAWEPQEGPLPLDIPQASPPQVQRCVEILSRAKRPLMVLGSQALLTPTS
ADKLRAAVETLGVPCFLGGMARGLLGRNHPLHIRENRSAAALKKADVIVLAGTVCDFRLSYGRVLSHSSKIIIVNR
NREEMLLNSDIFWKPQEAVQGDVGSFVLKLVEGLQGQTWAPDWVEELREADRQKEQTFREKAAMPVAQHLPVQV
LQLVEETLPDNSILVVDGGDFVGTAAHLVQPRGPLRWLDPGAFGLGVGAGFALGAKLCRPDAEVWCLFGDGAFG
YSLIEFDTFVRHKIPVMALVGNDAGWTQISREQVPSLGSNVACGLAYTDYHKAAMGLGARGLLLSRENEDQVVKV
LHDAQQQCRDGHPVVVNILIGRTDFRDGSIIV

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FIGURE 5310A

GCGGCGCGGAGGCTGGCCCCGGGACGCGCCCCGGAGCCAGGGAAGGAGGGAGGAGGGGAGGGTGC GCGGCCGGCCGC
CATGGGGCCGGGGGGCCCGTGGCCGCCGCCGCCCGTGC CCGCATGTGCGCCGCCACCGCCACCGCCACCCGTGCG
GGCGCTGCCCCCTGCTGCTGCTGCTAGCGGGGCCGGGGGCTGCAGCCCCCCTTGCTTGACGGAAGCCCGTGTGC
AAATGGAGGTCGTTGCACCCAGCTGCCCTCCCGGGAGGCTGCC TGCTGTGCCCGCTGGCTGGGTGGGTGAGCG
GTGTGAGCTGGAGGACCCCTGTCACTCAGGCCCTGTGCTGGCCGTGGTGTCTGCCAGAGTTTCACTGGTGGCTGG
CACCGCCCCGATTCTCATGCCGTGCCCGCTGGCTTCCGAGGCCCTGACTGCTCCCTGCCAGATCCCTGCCCTCAG
CAGCCCTTGTGCCACGGTGCCCGCTGTCACTGAGGGCCCGATGGACGCTTCCTCTGCTCCCTGCCACCTGGCTA
CCAGGGCCGCAGCTGCCGAAGCGACGTGGATGAGTGCCGGGTGGGTGAGCCCTGCCGCCATGGTGGCACCTGCCT
CAACACACCTGGCTCCTTCCGCTGCCAGTGTCCAGCTGGCTACACAGGGCCACTATGTGAGAACCCCCGCGGTGCC
CTGTGCACCCCTACCATGCCGTAACGGGGGCACCTGCAGGCAGAGTGGCGACCTCACTTACGACTGTGCCTGTCT
TCCTGGGTTTGAGGGTCAGAATTGTGAAGTGAACGTGGACGACTGTCCAGGACACCGATGTCTCAATGGGGGGAC
ATGCGTGGATGGCGTCAACACCTATAACTGCCAGTGCCCTCCTGAGTGGACAGGCCAGTTCTGCACGGAGGACGT
GGATGAGTGTGAGCTGCAGCCCAACGCCTGCCACAATGGGGGTACCTGCTTCAACACGCTGGGTGGCCACAGCTG
CGTGTGTGTCAATGGCTGGACAGGCGAGAGCTGCAGTCAGAATATCGATGACTGTGCCACAGCCGTGTGCTTCCA
TGGGGCCACCTGCCATGACCGCGTGGCTTCTTTCTACTGTGCTGCCCATGGGCAAGACTGGCTCCTGTGTCA
CCTGGATGACGCCTGTGTGAGCAACCCCTGCCACGAGGATGCTATCTGTGACACAAATCCGGTGAACGGCCGGGC
CATTTGCACCTGTCTTCCCGGCTTACGGGTGGGGCATGTGACCAGGATGTGGACGAGTGTCTATCGGCGCCAA
CCCCTGCGAGCACTTGGGCAGGTGCGTGAACACGCAGGGCTCCTTCTGTGCCAGTGCGGTGCTGGCTACACTGG
ACCTCGCTGTGAGACCGATGTCAACGAGTGTCTGTGCGGGGCCCTGCCGAAACCAGGCCACGTGCCTCGACCGCAT
AGGCCAGTTACCTGTATCTGTATGGCAGGCTTACAGGAACCTATTGCGAGGTGGACATTGACGAGTGTGAGAG
TAGCCCCTGTGTCAACGGTGGGGTCTGCAAGGACCGAGTCAATGGCTTCACTGTGACCTGCCCTCGGGCTTCA
CGGCTCCACGTGTGAGCTGGACGTGGACGAATGCGCCAGCAGCCCTGCAGGAATGGCGCCAAATGCGTGGACCA
GCCCCGATGGCTACGAGTGCCGCTGTGCCGAGGGCTTGGAGGACGCTGTGTGATCGCAACGTGGACGACTGCTC
CCCTGACCCATGCCACCATGGTGCCTGCGTGGATGGCATCGCCAGCTTCTCATGTGCTGTGCTCCTGGCTACAC
GGGCACACGCTGCGAGAGCCAGGTGGACGAATGCCGAGCCAGCCCTGCCGCCATGGCGGCAATGCCTAGACCT
GGTGGACAAGTACCTCTGCCGCTGCCCTTCTGGGACCACAGGTGTGAAGTGAACATTGACGACTGTGC
CAGCAACCCCTGCACCTTTGGAGTCTGCCGTGATGGCATCAACCGCTACGACTGTGTCTGCAACCTGGCTTCA
AGGGCCCTTTGTAACGTGGAGATCAATGAGTGTGCTTCCAGCCCATGCGGCGAGGGAGGTTCTGTGTGGATGG
GGAATGGCTTCCGCTGCCTCTGCCCGCTGGCTCCTTGCCCCACTCTGCTCCCCCGAGCCATCCCTGTGC
CCATGAGCCCTGCAGTCACGGCATCTGCTATGATGCACCTGGCGGGTTCGCTGTGTGTGTGAGCCTGGCTGGAG
TGGCCCCGCTGCAGCCAGAGCCTGGCCCGAGACGCTGTGAGTCCAGCCGTGCAGGGCCGCTGGGACATGCAG
CAGCGATGGAATGGGTTTTCACTGCACCTGCCCGCTGGTGTCCAGGGACGTGAGTGTGAACCTCTTCCCCCTG
CAGCCGAAACCCCTGTGAGCATGGGGGCCGTGCGAGTGTGCCCTGGCCAGCTGCCTGTCTGCTCCTGCCCCA
GGGCTGGCAAGGCCACGATGCCAGCAGGATGTGGACGAGTGTGCTGGCCCCGACCCCTGTGGCCCTCATGGTAT
CTGCACCAACCTGGCAGGGAGTTTCACTGCACCTGCCATGGAGGGTACACTGGCCCTTCTGCGCATCAGGACAT
CAATGACTGTGACCCCAACCCATGCCTGAACGGTGGCTCGTGCCAGACGGCGTGGGCTCCTTTCTGCTCCTG
CCTCCCTGGTTTTCGCCGGCCACGATGCGCCCGCATGTGGATGAGTGCTGAGCAACCCCTGCGGCCCGGGCAC
CTGTACCGACCAGTGGCCTCCTTCACTGCACCTGCCCGCCAGGCTACGGAGGCTTCCACTGCGAACAGGACCT
GCCCCACTGCAGCCCAGCTCCTGCTTCAATGGCGGGACCTGTGTGGACGGCGTGAACCTGCTTCACTGCTGTG
CCGTCCCGGCTACACAGGAGCCCACTGCCAACATGAGGCAGACCCCTGCTCTCGCGCCCTGCTTACACGGGGG
CGTCTGCAGCGCCGCCACCCTGGCTTCCGCTGCACCTGCCTCGAGAGCTTACAGGGCCCGCAGTGCCAGACGCT
GGTGGATTGGTGCAGCCGCCAGCCTTGTCAAACGGGGGTGCTGCTCCAGACTGGGGCTATTGCTTTGTCC
CCCTGGATGGAGCGGACGCTCTGTGACATCCGAAGCTTGCCTGCAGGGAGGCCGAGCCAGATCGGGGTGCG
GCTGGAGCAGCTGTGTGAGCGGGTGGGCAGTGTGTGGATGAAGACAGTCCCACTACTGCGTGTGCCAGAGGG
CCGTACTGGTAGCCACTGTGAGCAGGAGGTGGACCCCTGCTTGGCCAGCCCTGCCAGCATGGGGGGACCTGCCG
TGGCTATATGGGGGGCTACATGTGTGAGTGTCTTCTGGCTACAATGGTGATAACTGTGAGGACGACGTGGACGA
GTGTGCTTCCAGCCCTGCCAGCAGGGGGTTCATGATTGACCTCGTGGCCCGCTATCTGTGCTCCTGTCCCCC
AGGAACGCTGGGGGTGCTCTGCGAGATTAATGAGGATGACTGCGGCCAGGCCACCGCTGGACTCAGGGCCCCG

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FIGURE 5310B

GTGCCTACACAATGGCACCTGCGTGGACCTGGTGGGTGGTTTCCGCTGCACCTGTCCCCCAGGATACACTGGTTT
GCGCTGCGAGGCAGACATCAATGAGTGTGCTCAGGTGCCTGCCACGCGGCACACACCCGGGACTGCCTGCAGGA
CCCAGGCGGAGGTTTCCGTTGCCTTTGTCTATGCTGGCTTCTCAGGTCCCTCGCTGTCTCAGACTGTCTGTCTCCCTG
CGAGTCCCAGCCATGCCAGCATGGAGGCCAGTGCCGTCCTAGCCCGGGTCTGGGGGTGGGCTGACCTTCACCTG
TCACTGTGCCAGCCGTTCTGGGGTCCGCGTTGCGAGCGGGTGGCGCGCTCCTGCCGGGAGCTGCAGTGCCCGGT
GGGCGTCCCATGCCAGCAGACGCCCCGCGGGCCGCGCTGCGCCTGCCCCCCAGGGTTGTCTGGGACCTCCTGCCG
CAGCTTCCCGGGGTCCGCGCCGGGGGCCAGCAACGCCAGCTGCGCGGCCGCCCCCTGTCTCCACGGGGGCTCCTG
CCGCCCCGCGCCGCTCGCGCCCTTCTTCCGCTGCGCTTGC CGCGCAGGGCTGGACCGGGCCGCGCTGCGAGGCGCC
CGCCGCGGCACCCGAGGTCTCGGAGGAGCCGCGGTGCCGCGCGCCGCTGCCAGGCCAAGCGCGGGGACCCAGCG
CTGCGACCGCGAGTGCAACAGCCCAGGCTGCGGCTGGGACGGCGCGACTGCTCGCTGAGCGTGGGCGACCCCTG
GCGGCAATGCGAGGCGCTGCAGTGCTGGCGCCTCTTCAACAACAGCCGCTGCGACCCCGCTGCAGCTCGCCCCG
CTGCCTCTACGACAACCTTCGACTGCCACGCCGCTGGCCGCGAGCGCACTTGCAACCCGGTGTACGAGAAGTACTG
CGCCGACCACTTTGCCGACGGCCGCTGCGACCAAGGGCTGCAACACGGAGGAGTGCGGCTGGGATGGGCTGGATTG
TGCCAGCGAGGTGCCGGCCCTGTGGCCCGCGCGCTGCTGGTGCTCACAGTGCTGCTGCCGCCAGAGGAGCTACT
GCGTTCCAGCGCCGACTTTCTGCAGCGGCTCAGCGCCATCCTGCGCACCTCGCTGCGCTTCCGCTGGACGCGCA
CGGCCAGGCCATGGTCTTCCCTTACCACCGGCTAGTCCTGGCTCCGAACCCCGGGCCCGTCCGGGAGCTGGCCCC
CGAGGTGATCGGCTCGGTAGTAATGCTGGAGATTGACAACCGGCTCTGCTGCAGTCGCTGAGAATGATCACTG
CTTCCCCGATGCCAGAGCGCCGCTGACTACCTGGGAGCGTTGTGAGCGGTGGAGCGCTGGACTTCCCGTACCC
ACTGCGGGAGCTGCGGGGGGAGCCGCTGGAGCCTCCAGAACCCAGCGTCCCGCTGCTGCCACTGCTAGTGGCGGG
CGCTGTCTTGTCTGCTGGTCATTCTCGTCTGGGTGTGATGGTGGCCCGCGCAAGCGCGAGCACAGCACCCCTCTG
GTTCCCTGAGGGCTTCTCACTGCACAAGGACGTGGCCTCTGGTCACAAGGGCCGCGGGGAACCCGTGGGCCAGGA
CGCGCTGGGCATGAAGAACATGGCCAAGGTGAGAGCCTGATGGGGGAGGTGGCCACAGACTGGATGGACACAGA
GTGCCAGAGGCCAAGCGGCTAAAGGTAGAGGAGCCAGGCATGGGGGCTGAGGAGGCTGTGGATTGCCGTGAGT
GACTCAACACCATCTGGTTGCTGCTGACATCCGCGTGGCACCAGCCATGGCACTGACACCACACAGGGCGACGC
AGATGCTGATGGCATGGATGTCAATGTGCGTGGCCAGATGGCTTACCCCGCTAATGCTGGCTTCCCTTCTGTGG
GGGGGCTCTGGAGCCAATGCCAACTGAAGAGGATGAGGCAGATGACACATCAGCTAGCATCATCTCCGACCTGAT
CTGCCAGGGGGCTCAGCTTGGGGCACGGACTGACCGTACTGGCGAGACTGCTTGCACCTGGCTGCCCGTTATGC
CCGTGCTGATGCAGCCAAGCGGCTGCTGGATGCTGGGGCAGACACCAATGCCAGGACCACTCAGGCCGCACTCC
CCTGCACACAGCTGTACAGCCGATGCCAGGGTGTCTTCCAGATTCTCATCCGAACCGCTCTACAGACTTGGA
TGCCCGCAGCTGATGGCTCAACGGCACTGATCCTGGCGGCCCGCTGGCAGTAGAGGGCATGGTGAAGAGCT
CATCGCCAGCCATGCTGATGTAATGCTGTGGATGAGCTTGGGAAATCAGCCTTACACTGGGCTGCGGCTGTGAA
CAACGTGGAAGCCACTTTGGCCCTGCTCAAAAATGGAGCCAATAAGGACATGCAGGATAGCAAGGAGGAGACCCC
CCTATTCTGGCCGCCCGCGAGGCGAGCTATGAGGCTGCCAAGCTGCTGTTGGACCACTTTGCCAACCGTGAGAT
CACCGACCACCTGGACAGGCTGCCGCGGGACGTAGCCCAAGGAGAGACTGCACCAGGACATCGTGCGCTTGCTGGA
TCAACCCAGTGGGCCCCGAGCCCCCCCCGGTCCCCACGGCCTGGGGCCTCTGCTCTGTCTCCAGGGGCCCTTCCCT
CCCTGGCCTCAAAGCGGCACAGTCGGGGTCCAAGAAGAGCAGGAGGGCCCCCGGGAAGGCGGGGCTGGGGCCGCA
GGGGCCCCGGGGGCGGGGCAAGAAGCTGACGCTGGCCTGCCCGGGCCCCCTGGCTGACAGCTCGGTCACGCTGTC
GCCCCGTGGACTCGCTGGACTCCCCGCGGCCCTTTCGGTGGGCCCCCTGCTTCCCTGGTGGCTTCCCCCTTGAGGG
GCCCTATGCAGCTGCCACTGCCACTGCAGTGCTCTTGGCACAGCTTGGTGGCCAGGCCGGGCGGGTCTAGGGCG
CCAGCCCCCTGGAGGATGTGTACTCAGCCTGGGCCTGCTGAACCCCTGTGGCTGTGCCCCCTCGATTGGGCCCCGCT
GCCCCACCTGCCCTCCAGGCCCTCGTTCTGCTGCCACTGGCGCCGGGACCCAGCTGCTCAACCCAGGGAC
CCCCGTCTCCCCGAGGAGCGGCCCGCCCTTACCTGGCAGTCCAGGACATGGCGAGGAGTACCCGGCGGGCTGG
GGCACACAGCAGCCCCCAAAGGCCGCTTCTGCGGGTTCCAGTGAGCACCCCTTACCTGACCCCATCCCCCGA
ATCCCCTGAGCACTGGGCCAGCCCCCTACCTCCCTCCCTCTCAGACTGGTCCGAATCCACGCCTAGCCCAGCCAC
TGCCACTGGGGCCATGGCCACCACCACTGGGGCACTGCCTGCCAGCCACTTCCCTTGTCTGTGCCAGCTCCCT
TGCTCAGGCCAGACCCAGCTGGGGCCCCAGCCGGAAGTTACCCCAAGAGGCAAGTGTGGCCTGAGACGCTCG
TCAGTTCTTAGATCTTGGGGGCTAAAGAGACCCCGCTCTGCTCTCTTTCTTCTGTCTCTTCTTCTTTT
AGTCTTTTTTATCTCTTCTCTTTCCACCAACCCCTCTGCATCCTTGCTTGCAGCGTGACCGAGATAGGTATC

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FIGURE 5310C

AGCCCAGGGCTTCAGTCTTCCTTTATTTATAATGGGTGGGGGCTACCACCCACCCCTCTCAGTCTTGTGAAGAGTC
TGGGACCTCCTTCTTCCCCACTTCTCTCTTCCCTCATTCCTTTCTCTCTCCTTCTGGCCTCTCATTTCCTTACAC
TCTGACATGAATGAATTATTATTATTTTTATTTTTCTTTTTTTTTTACATTTGTATAGAAACAAATTCATTTA
AACAAACTTATTATTATTATTTTTTACAAAATATATATATGGAGATGCTCCCTCCCCCTGTGAACCCCCCAGTGC
CCCCGTGGGGCTGAGTCTGTGGGCCCATTCGGCCAAGCTGGATTCTGTGTACCTAGTACACAGGCATGACTGGGA
TCCCGTGTACCGAGTACACGACCCAGGTATGTACCAAGTAGGCACCCCTGGGCGCACCCACTGGGGCCAGGGGTC
GGGGGAGTGTTGGGAGCCTCCTCCCCACCCACCTCCCTCACTTCACTGCATTCCAGATGGGACATGTTCCATAG
CCTTGCTGGGGAAGGGCCCACTGCCAACTCCCTCTGCCCCAGCCCCACCCCTGGCCATCTCCCTTTGGGAAGTAG
GGGGCTGCTGGTGGGAAATGGGAGCCAGGGCAGATGTATGCATTCCCTTGTGTCCCTGTAAATGTGGGACTACAA
GAAGAGGAGCTGCCTGAGTGGTACTTTCTCTTCCCTGGTAATCCTCTGGCCCAGCCTCATGGCAGAATAGAGGTAT
TTTTAGGCTATTTTTGTAATATGGCTTCTGGTCAAAATCCCTGTGTAGCTGAATTCCCAAGCCCTGCATTGTACA
GCCCCCACTCCCTCACCACCTAATAAAGGAATAGTTAACACTC

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FIGURE 5311

CTTTTCACAAGATGGTGCCGAAAGTGAAGAAGGAAGCTCCTGCCCCCTCCTAAAGCCGAAGCCAAAGCGAAGGCTT
TAAAGGCCAAGAAGGCAGTGTTGAAAGGTGTCCACAGCCACAAAAAGAAGATCCACACGTCACCCACCTTCCGGC
GGCCGAAGACACTGCGACTCCGGAGACAGCCCAAATATCCTCGGAAGAGCGCTCCCAGGAGAAACAAGCTTGACC
ACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACACACTTGTGT
TCATTGTGGATGTTAAAGCCAACAAGCACCAGATCAAACAGGCTGTGAAGAAGCTCTATGACATTGATGTGGCCA
AGGTCAACACCCTGATTTCGGCCTGATGGAGAGAAGAAGGTATATGTTTCGACTGACTCCTGATTACGATGCTTTGG
ATGTTGCCAACTATATCTTTTCACCATATACATGCCTCTCTGTCAATTTCTGGTTGGGCTGGGAGGCCACACACA
GACACTGACATGACAGGGCTTGGGCAAGACTCCTGTTCTACTTATCCTTTTGAAATATTACCCCTGCCA

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FIGURE 5312

GAGCCCAGCCGAGCGTCCGCCGCTGCCCGTGCGCCTCTGCGCTCCGCGCCATGGCCGGCCCTCAACTCCCTGGAGG
CGGTGAAACGCAAGATCCAGGCCCTGCAGCAGCAGGCGGACGAGGCGGAAGACCGCGCGCAGGGCCCTGCAGCGGG
AGCTGGACGGCGAGCGCGAGCGGCGGAGAAAGCTGAAGGTGATGTGGCCGCCCTCAACCGACGCATCCAGCTCG
TTGAGGAGGAGTTGGACAGGGCTCAGGAACGACTGGCCACGGCCCTGCAGAAGCTGGAGGAGGCAGAAAAAGCTG
CAGATGAGAGTGAGAGAGGAATGAAGGTGATAGAAAACCGGGCCATGAAGGATGAGGAGAAGATGGAGATTCAGG
AGATGCAGCTCAAAGAGGCCAAGCACATTGCGGAAGAGGCTGACCGCAAATACGAGGAGGTAGCTCGTAAGCTGG
TCATCCTGGAGGGTGAGCTGGAGAGGGCAGAGGAGCGTGCGGAGGTGTCTGAACTAAAATGTGGTGACCTGGAAG
AAGAACTCAAGAATGTTACTAACAATCTGAAATCTCTGGAGGCTGCATCTGAAAAGTATTCTGAAAAGGAGGACA
AATATGAAGAAGAAATTAAACTTCTGTCTGACAACTGAAAGAGGCTGAGACCCGTGCTGAATTTGCAGAGAGAA
CGGTTGCAAACTGGAAAAGACAATTGATGACCTGGAAGAGAACTTGCCAGGCCAAAGAAGAGAACGTGGGCT
TACATCAGACACTGGATCAGACACTAAACGAACTTAACTGTATATTAAGCAAAACAGAAGAGTCTTGTTCCAACAG
AAACTCTGGAGCTCCGTGGGTCTTTCTCTTCTTGTGAAGAAGTTCCTTTTGTATTGCCATCTTCGCTTTGCTG
GAAATGTCAAGCAAATTATGAATACATGACCAAATATTTTGTATCGGAGAAGCTTTGAGCACCAGTTAAATCTCA
TTCCTTCCCTTTTTTTTTTCAAATGGCACCAGCTTTTTTCAGCTCTCTTATTTTTTCCCTTAAGTAGCATTATTCTCT
AAGGTAGGCAGGGTATTTCTAGTAAGCATACTTTCTTAAGACGGAGGCCATTTGGTTCCTGGGAGAATAGGCAG
CCCCACACTTTGAAGAATACAGACCCAGTATCTAGTCGTGGATATAATTAAAACGCTGAAGACCATAACCTTTT
GGGTCAACTGTTGGTCAAATATAGGAGAGACCAGGGACCATCACATGGGTAGGGATTTTCCATCCAGAGCCAAT
AAAAGGACTGGTGGGGGCCGGGGTGGCTATTGTGGGAAGTCATAACCCACAGATAGATCAACCTAAGAATCCTG
GCCCTTCTCCACTCTCCACCATGCAGGACAAACATCTTCTCAAGCAGTCAACGTAGAATGCTTGGGAAATAGTCA
TAATTACCCACATATAGTAATTAATAGATGGTAATTAATTGATCCTTGATGTGATGTTCTTTTGCATATTTCCTT
CATTCTAAAGTTGTTCCCTGGCCGGGAGCGTTTGCTTTCGCTGTAAATCCCAACACTTTGGGAGGCCAGGACAGA
TCACTTGAGGTGAGGAGTTCGAGACCAGCCAGCCAACATGGCGAAACCATGTCTCTACTAAAAATACAAAAATT
ATGGTGACGCCTGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGGATCGCTTGAACCCAGGAAGTGAG
ACTGCAGTGAGCCGATATCGCACCACAGCGCTCCAGCCTGGTCGACAGAGTGAGACTCCATCTCAAGAAAAATA
AAAATAAAGTTGTTCTCTGAAGAGCAAATGTCTCATTCCAGTAATGACCCACTCAGCAGGAATATGGTGAGTTC
AGTCCAATTCAGGTGAGCCATATCCAAAAGACCACAAGTCATTACTAAGTTGAGCAAAAGAGTTTTTATCTATTA
GCAGAAAGGGCCTCTCTGGCAGCAGAGATTAAAAACTGGCCCAACTTCATTTCCTACTTCAGGGAACAGCAAAT
TGAGGATTTACTTATCTAGGACTT

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FIGURE 5313

MAGLNSLEAVKRKIQALQQQADEAEDRAQGLQRELDGERERREKAEGDVAALNRRIQLVEEELDRAQERLATALQ
KLEEAEKAADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEEERA EVS
ELKCGDLEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVAKLEKTIDDLEEKLA
QAKEENVGLHQTLDTLNLNCI

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FIGURE 5314

GCTCGGTGCTGATGGACGGTGCTGGTGGCCAGTGGAGAGGCGCTGGCCGCACTTCCCGTCGGGGAGAGAGTGTAAT
TATGGCGAAGACCTACGATTACCTGTTCAAGCTGCTGCTGATCGGGGACTCGGGGGTGGGGAAGACCTGTGTCTCT
GTTCCGCTTCTCCGAGGACGCCTTCAACTCCACTTTTATCTCCACCATAGGAATTGACTTTAAAAATTAGGACCAT
AGAGCTCGATGGCAAGAGAATTAACTGCAGATATGGGACACAGCCGGTCAGGAACGGTTTCGGACGATCACAAC
GGCCTACTACAGGGGTGCAATGGGCATCATGCTGGTCTACGACATCACCAACGAGAAGTCCTTCGACAACATCCG
GAACTGGATTTCGCAACATTGAGGAGCACGCCTCTGCAGACGTCGAAAAAGATGATACTCGGGAAACAAGTGTGATGT
GAATGACAAGAGACAAGTTTCCAAGGAACGGGGAGAAAAAGCTGGCCCTCGACTATGGAATCAAGTTTCATGGAGAC
CAGCGCGAAGGCCAACATCAATGTGGAAAATGCATTTTCACTCTCGCCAGAGATATCAAAAGCAAAAATGGACAA
AAAATTGGAAGGCAACAGCCCCAGGGGAGCAACCAGGGAGTCAAAATCACACCGGACCAGCAGAAGAGGAGCAG
CTTTTTCCGATGTGTTCTTCTGTGAGGAACACCGCCTTACTCTGAGCCTCGCTCAGCCCAGCTGACTGTGCCTGT
TCTGAGTGAGCCCCCTACTCAGCCGGGGCCCTCCACCTCCAACGCCCCGCCCACGCCGCGGCCACCGGGCCCAC
GGCCACCAGAATGCAATTGAGAAATCGTTTATTTTAGTAACTGTCTGATCTTTTTCAACTTTGGAGATGGAATAA
GTTAAAAATTTGCTATTTTTCTGTAAATCTGCTGAACGGGCCCCACCCACACGTTGTATATTCAGAGAGAGAGA
GGGAGTCAAGGTGTGACCGTCGACCACAGCCAGTGTGAGGCCTCTGCCTCTGGGCCTTTGCTTTGTGGCCTCACT
GCAACACAAAGCTCCACCAGGAGGCTGGTTCACGTCCCCTACCACGGAAGCGAGGTCCCAGAAGGCCAGCGGTGG
TTCCAGGAGCAACAGCTCCCAAACCTGAGCAAGGCAACC GATCGCCAGGACCAGGAAGCATCACCCAGGAGATT
TGGCGCCCACTTCCACCTCTTCTCTCAGTTTTGGACAAGTGACAAACCATTTTGCCCCCTCACTCTTCTTTTTTA
ACTGTTAAACCAAGGAAAGCACAAATGAAGGAAATCCTGTGTAAAGCATTGAGAAGGAAAGAAGCCTGGAGCAG
CCTCTCCTGTCCACAGCCAGGGGTTAGGTCTGCAGGCCCGTCTGCGGTCCCCATCGAGCATCAAGGGGACGCTGT
GTGTGCTGCAAGTGACCCCGAAAACAACCACAGCCGTCACATGGTCCTCCTGAAGTTGGGGCACCCCTCCTCTCAG
CACCAAAATGGCCCCCACTCCTTCGTGTCTCTCCGCTATCTCCAAATCGGACGTTCTTTCTAGCTGAGATTTTTA
TTTTTCCACATCTGTAGTGCCATGAAGCGATTCTGTCTTTGACTTCCAATGGCAAACCTGGGTGATCGGGAACAA
GCACGTTGTACCCTTGGCTGGACATGGCCAAGACACAAGGCATTCCACGGCGGCAAGCTGACCGCACAGCAGTCT
GGCTTGATTTTCAGCCGTCATCATTGGGTCTGTTTTGACAGCTCTGCTGTCCCATAGGGACTGCGACTGGGACC
AGGTCAACCACGCCAGGGGGGTGTCACCAGCCTTTCTTTTTTTCTTTCTTTTTTTTTTCTCCTTAAGCTG
CTGTCAATCCAAACCATGGCATCATCGTTTCTTTCAATTAAACCAACATATCAGCAATAGTCTGCTCTCCCC
GGGAATCTCTAACATGCTCTGTTTACATCGATAAATGCACTTAAGGAAAAACAAACAAATTAAAGCTCATCTTAA
GTCCAAAAA

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FIGURE 5315

MAKTYDYLFKLLLLIGDSGVGKTCVLFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITT
AYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMET
SAKANINVENAFFTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQRSSFFRCVLL

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FIGURE 5316

GGTGAGCTGTGCGGGGCGGCGCCCGGCCCTTGCTCAACGCCCAGCAGTCCCCACCGTCTGCTGCCGCCGCCACCGCC
CTCGGCCGCTGCCGAGGCCTCCTGCAGCCATCATGTCCGCCAGCGCCGTCTACGTGCTGGACCTGAAGGGCAAGG
TGCTCATCTGCCGGAACCTACCGTGGCGACGTGGACATGTGAGAGGTGGAGCACTTCATGCCCATCCTGATGGAGA
AGGAGGAGGAGGGGATGCTGTGCCCCATCCTGGCCACGGGGGGGTCCGTTTCATGTGGATCAAACACAACAACC
TGTATCTGGTTGCCACATCCAAGAAGAAGCGCTGCGTGTGCTGGTCTTTTCTTTCTCTATAAGGTGGTGCAGG
TGTTTTCCGAGTACTTCAAGGAGCTGGAGGAGGAGAGCATCCGGGACAACCTTTGTTATCATCTACGAGCTGCTGG
ACGAGCTCATGGACTTCGGCTACCCCCAGACCACCGACAGCAAGATCCTGCGAGGAGTACATCACTCAGGAAGGCC
ACAAGCTGGAAACAGGGGGCCCCGCGGCCACCCAGCCACCGTCACCAACGCGGTGTCTGGCGGTCCGAAGGCATCA
AGTATCGGAAGAATGAGGTGTTCTTGAGCGTCACTCGAGTCTGTCAACCTCTTGGTCAGCGCCAACGGCAATGTCC
TGCGCAGCGAGATCGTGGGCTCCATCAAGATGCGAGTCTTCTCTCGGGCATGCCCGAGCTGCGCCTGGGCCTCA
ACGACAAGGTCTCTTTGACAACACGGGCGCGGCAAAAGCAAAATCCGTGGAGCTGGAGGATGTGAAGTTCCACC
AGTGTGTGCGGCTATCAGCTTCGAGAATGACCGCACCATCTCCTTCATCCCACCCGACGGCGAGTTCGAGCTCA
TGCTCTACCGTCTCAACACCCACGTCAAGCCTTTGATATGGATCGAGTCGGTGATCGAGAAGCACTCCCACAGCC
GCATCGAGTACATGATCAAGGCCAAAAGCCAGTTCAAGCGGCGGTCAACAGCCAACAACGTGGAGATCCACATTC
CCGTGCCCAATGATGCCGACTACCCCAAGTTCAAGACGACGGTGGGGAGCGTTAAGTGGGTCCCCGAGAACAGCG
AGATCGTGTGGTCCATCAAGTCTTCCCGGGCGGCAAGGAGTACCTGATGCGGGCCCCACTTCGGCCTGCCTAGTG
TGGAGGCCGAAGACAAGGAGGGCAAGCCCCGATCAGTGTCAAGTTGAGATCCCTTACTTCACTACCTCCGGCA
TCCAGGTGCGCTACCTGAAGATCATTGAGAAGAGTGGGTACCAGGCCCTGCCCTGGGTGCGTTATATCACGCAGA
ATGGAGATTACCAGCTCCGGACCCAGTGAGGGGCTGTGCGAGCCAACACCCCGGCTCGGGCTCCTGGTGGCAGC
ACCAGGGACACACCTGCCAAACCCACCAGATGGAGGGGCCCTCCTGGTCTCTGGCCACCCTTCCAGCCTCTGCCC
AGGGACTCCTGCCTTACCAGGGCATCTGCTCTGCCGTCGACACTCGTCTCAGAAGCCCCCTTTCCAGAAAGAGGC
TGGTCTTCAAGAAGTCTCGTTTCTTTGCCCCCTGAAGTCAGTTTCAGGGGAAGGATGTGAAATTTTCCGTGTAGA
GGTTACAGCCTTTTATGCTGTTGAGCTCCCAGGTACCAAAAAGCTTGSCCAACGCTTGCCAGCCAGCCAGCTGCA
GGTGGCATCTGCCACGAAGGAAGCGCCACGCTCGCCAGGCCAGCAGGGGCGTCGTTTGTGTCATTTTGTGAA
CGTTATGGGTTTATGGGTGTTCTTGGAACCTTGCTTTTGTCATTCTGCTGTTGTGTTACCTCACTGTCCCC
ATGTCCCACCCACGTCTACGGCACTCAGGAAGCACTTGGTGAGGACGAGCCCTCACCTTCTGTCTTCTTCC
CGGCAGCGCCGACGCGGGCCATTTACAGTCGAGGCTGGCACCTGGCGCGCTCGGGGGCCACTGTAGCGTCTGCC
TGCTCCCTGGACTCGCAGGCCCTGCCTGTGGCGCCTTCCAGGGCCAGCCTGGGTACGAGATGCTGTCACTCAG
CCAGATCAGTATTGACCCACCAGGGGAGGTGGGTTTGGTGAGAGACGCCAGCCTCAGACTTTTCCCACTGAGG
GTCCAGAGAGCGGGGCCACGTGTCACCCACGTCTGCGCTTGGTCACCCGTCTCCCCACCTGTGTGTGTTTATG
TCATAGTTACATTAAATTCATTTCATTG

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FIGURE 5317

CCTTCAGGCCTGAATGTGGCGGCTGCCTCTGCGAATGGACGGCGTGCGGAAGAGAAATGGCTTCTGCAAGGAAAGCC
AGCCGTCCTCATGCGTGATGTTTTTGGTGACTTCAGTGATGTTTCCCTTGGAAGATTCAACAATGGAAGAAATCAGA
AACTTCCAGATCAGTAGAAATCTTACCAAAATAGCACCTGGTCATAGCAGATTTCTAAAAAGAAACCAAACTCTA
GATGAGAAACACTTACTCCTGAAAGAGAACCTGTGCTCGGGAGTGGACCCAGGCTTGCCCTCATGTAGACCGCCC
ACCACTGCCTCCAGGATCCGAGCCAATGCCGCACTCATGAAGCTGGCCCAGCTGGAAACCCGGATCATGAATCGG
AAGCTGCAGAGGAATTTGTCTGACACGGAATCTGACTCAATGACCGCGATGCTGGTCTTCCAAAGAGAGCTGAC
AGAATCCTCTCTGGGGGTGCACTCGAATCGCGTCCAGAACACAGACAAAACCTCCAGAAATCAAGCCCGTGAA
CTTCTGTCTACCGAAAATAATGCACAGAACGCGAAGGTCTAGTGGTTTCTAAAGAAAGAAACAAGCACCTGTTGAA
AACATATCCCCTGAAGCACCTGCTGGGAAAGAGAGGACTTTGCAAAACCCCCAAACAGAAAGAACCTGCTAGAACAA
TTTGATTCTCCAGACAGTGACGAAGAAGAAATGAAAGTATTGCTAGGAAGCTTGATGGACTCTTCTAGAGAAAAA
AACACGAATCAAGGCTTCAGCAGCGCTAACGTCAGCGAGGAAGAAAGAAAGAAACTATTTTCGGTCCCATCTCAA
CTGAGAGCATTTACTGTACCCAGCGTGGAATCTCCAGCGCAAAGCCTTCTCAGACATCACACCTGCCAACCTCC
CTGGCAGCAGACAGAACCTTCACAGCACTCGCTCAAGAGCAGACTACCCACAGAGTCACGTTTCCAGTGACACC
GCCTCCACACGCGCTCAGTTTCCATCACAGGCGCCTTTTCAAATCAGTGCTTTTAAAGATGGGGCATGTCAAG
CTTGTGTCTTCCCGGGAAGGAGTGAGGCTGAGACTGTGGACGAGCCAGTCTCAGAAGGTGCTGATGACAGCCTC
GACGAGTTTAGAATAAATATTTTATCGCTTGACGGTCTGGCTCCAGCTGTGCTGAGAACTCCGATTTGGAACAG
GAAGAGGAAAGTGCTCAGAGACAAAAACAGCTGGCAAAATCTTCAGAGCCGAGGCGTCCACTGGGCAGGATGCC
CCGAGGCAGGCCAGGCAGGAGCTGGGCATCACAGGAAAGGCCGCTCTGCAGAGGGGGATGAGAGCGAGGTC
TCGGAGCATCTCAGTGCCAGCTCGGCTTCTGCCATCCAGCAGGACAGCACTTCCAGCATGCAGCCACCATCTGAA
GCCCCCATGGTGAACACAGTCAGCTCAGCTTATTCGAGGATTTTGAAACTCTCCAAGTCTGACAGCATCTGAG
CCAACCGCCCATTTCAAGGAGTCTCTTGACAGAACACTGGACGCTTTGTCTGAATCCTCTTCAAGTGTGAAGACA
GACCTTCCACAAACAGCCGAGTCTAGGAAAAAGTCGGGCAGGCACGTGACAAGAGTGCTTGTGAAGGACACAGCT
GTGCAGACGCCAGATCCTGCCTTACCTACGATGGACCAAGGTGGCCAGCATGGCAGCCATGGGGCCTGCCCTG
GGAGGCGCTACGTGGACCCGACACCCATCGCCAATCATGTTATCAGTGCAGATGCAATAGAAGCCCTGACCGCT
TACAGCCCGGCCGTGCTGGCACTCCATGATGTGCTGAAGCAGCAGCTGAGCCTGACGACAGCTTACATCCAGGCC
AGCCGGCACCTGCACGCTCCCTCCTGCGCTCCCTGGACGCGGACTCCTTCCACTACCAACACCCCTGGAGGAAGCC
AAAGAGTACATTAGGTGCCACAGACCTGCCCACTGACCATGGAGGATGCCCTGGAGAGGTGAACAAGGAGCTG
TGAGCGCCAGCAGGTGGAGCTTGACGTGACGTCTTAACAAAAGCAAAGCACCCGACGCTTCCAGAGTTACCAGCG
CAGCACTTAAGACAGGATCTTACGGCGGGGTGGGGCTCCTGGACCGTGACCGCGTCGCTCTTCTGGGGAGTACG
ACTTGGACCGGGACCGCGACTGGGACCGGGAGCGGCTTCTGGAGGAGCGCGACCTGCTCCGACTTCTGCAGGGAA
GGGTGCCCAAGGGTCAGCAGCAGCCAGGCGTCTGGGGAGGCCACAGGAAGGGGCCTCAGGCAGCTGCCCTGAGGC
AGCCTCTGCCTACCTAGATCTGGAGCGGGAGTAGGAACGGGAGCAGGAGCGCGACCTTGACCTTGAGTACGAGCC
TGAAGACTTGAGGATCTTGAGTTGGAGCGGGAGGAAGAACGCCCTCGACTCTTGATCTGCTCCGAGACCTCGA
GGGTCCGCTGTGGGGAGAGGCCTGATGATCAGGTGCCCCAGTGGATGGGCTGCACCCAGCCACCCCTGGCCCTCA
GGTTCCTAGACCACCCAGATGCAGGGGCTCTGGCTGTGGATGTGGCGCCATAGCCACAGCAACGGTACCAAGTT
CCTAAATAGTGTGGCCGAGCCTGCTGCTGTGTGAATTCAGGCCTTGTGGAAAAACCCGCCCCATAGGCACAGGCT
GTGTGAGGGTGGACGTGATGAGTGTATCTGGGGTCTGCTCCACCCATCACAAGCTGTGGACCTGGCCCCCGG
CCACTGCAGACATCTGCGCTTTTACCTGTTCTCTTCTCCTGGCCTTCTCCTCCGCGGGGCCGATTTTTGCTCG
GAAGAACTCATAGAGGCCGTTCTGCTCCAGCCTTCACTGTAAGACACGGCATTCGCTGTGTGACCACGTGACAC
CCACCCACAAGGAAGTCGTGAAAAAGTCATCAGGAGTTAATCCACAGAACCTTGGAGAGTACATGGCCCTGTGGC
TGTGGGCTCCGAGCATGGGCGCAGTAGAGCTTGGTTCAGTGTTCACAGGGCTGTCTCTCTGCAGCCAGTGGC
TCCTCTGGTGCCACGCTTGGCCACCCTGCTGTTCGCTGAGGTGGTGGGGACCCATGGTCTGTGGAACCTGGGA
AACAGGAACACTGACTCATGGGTGGACAGGCTGCAGCCAGCACAGGAAGGAGGGGTGACCACTGGGAAGGGTG
GGCTGAGGGCCCTGTGGCAGCCGGCTGCTTGAGACGTGCCGCCGTGCCACACCTTCCCTAACTTCTTCTGATGTG
TCTCCATTAATAACGCCCTTCATTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5318

MASARKASRPMRDVFGDFSDVSLEDSTMEIIRNFQISRNLTKIAPGHSRFLKRNQTLDEKHLLLKENPVLGSGPR
LASCRPPTTASRIRANAALMKLAQLETRIMNRKLQRNLSDTESDSMTADAGLPKRADRIILSGGALELASQNTDKT
SQNQARELPVTENNAQNAKVSRLKKKQAPVENISPEAPAGKERTLQTPKQKEPARTFDSPDSDEEEMKVLLGSL
MDSSREKNTNQGFSSANVSEEEERKLFSVPSQLRAFTVPSVELSSAKPSQTSHLPTSLAADRTLHSTRSRADYPQ
SHVSSDTASHTPSVSITGAFSNSVSLKMGHVKLVSPPGRSEAETVDEPVSEGADDSLDEFINILSLDGLAPAVS
ENSDLEQEEESAQRQKTAGKIFRAEASTGQDAPRQAQARSWASQGKAASAEGDESEVSEHLSASSASAIQQDSTS
SMQPPSEAPMNTVSSAYSSEDFENSPSLTASEPTAHSKESLDRTLDALSESSSSVKTDLPQTAESRKKSGRHVTR
VLVKDTAVQTPDPAFTYEWTKVASMAAMGPALGGAYVDPTPIANHVISADAIEALTAYSPAVLALHDVLKQQLSL
TQQFIQASRHLHASLLRSLDADSFHYHTLEEKEYIRCHRPAPLTMEDALEEVNKL

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FIGURE 5319A

GGCACGAGGGCAGACGGCGCTGGTGGTTCGATCGTGTGGCGCCGGAGGACGTTCCCCGCGGCCGGAGCCATGGAGA
TGCCGCTGCCCCCGATGACCAGGAGCTTCGAAATGTTCATCGACAAGCTCGCCAGTTTCGTGGCTCGCAATGGGC
CCGAGTTTGAGAAGATGACTATGGAGAAGCAGAAGGACAACCCCAAATTCTCGTTTCTTTTCGGAGGCGAATTCT
ACAGTTACTACAAGTGAAGCTGGCGCTGGAGCAGCAGCAGCTCATCTGCAAGCAGCAGACCCCGGAGCTGGAGC
CAGCCGCCACCATGCCACCCCTGCCACAGCCCCCGCTGGCCCCCGCCGCGCCCATCCCGCCGGCCAGGGCGCGC
CATCCATGGACGAGCTCATCCAGCAGAGCCAGTGAACCTCCAGCAGCAGGAGCAGCACTTGCTGGCGCTCAGAC
AGGAGCAAGTGACAGCGGCCCTGGCCACGCGGTGGAGCAGCAGATGCAGAAGCTTCTGGAGGAGACCCAGCTAG
ACATGAACGAGTTTGACAACCTCCTGCAGCCCATCATCGACACGTGCACCAAGGACGCCATCTCGGCCGGGAAGA
ACTGGATGTTTCAGCAATGCCAAGTCCCCGCCGCACTGTGAGCTGATGGCCGGCCACCTCCGGAACCGCATCACGG
CTGATGGGGCACACTTCGAGCTGCGGCTGCACCTCATCTACCTGATCAATGACGTGCTGCACCACTGCCAGCGCA
AGCAGGCCCCGGGAGCTGCTGGCCGCCCTGCAGAAGTCTGTGGTGGCCATCTACTGCACCACTTCTTGGCCGTGG
AGGAAGACAAGCAGCAGAAAGATCGCCCGCTCCTGCAGCTCTGGGAGAAAAACGGCTACTTCGATGACTCCATCA
TTCAGCAGCTACAGAGCCAGCCCTGGGGCTTGGTCAGTACCAGGCCACCTCATCAACGAGTACTCCTCAGTGG
TCCAGCCGGTGCAGCTGGCCTTCCAGCAGCAGATCCAGACCTCAAGACGCAGCACGAGGAGTTTGTACCAGCC
TGGCCCAGCAGCAGCAGCAGCAGCAACAGCAGCAGCAGCAGCTCCAGATGCCGAGATGGAGGCTGAAGTCAAGG
CCACGCTTCCACGCTGCTCCACCCCGGCCCGCAGCAGCTGCCCTGCCATCCCGCCACCAACCCAGCCTGATG
ACAGCAAGCTTCCATCCAGATGCTGGCTCTTCAGAGTACGAAGCTCCAGGAGGGGTCCAGGATCCTGCAGCTG
CCGGCCCCCGGGGCCCGGGCCACAGACAGATCCCAACAAAGCCCCCTTGGTTTGACAGCCTCACCCCG
TGGCTCCTTGGGGCCAGCAGCAGCCGCCAGAGCAGCCACCTACCCGCAACACAGGGCGGGCCACCCCACTGCC
CCCCCTGGAACAACAGCCATGAGGGCATGTGGGGCAGCAGCGCGGTGACCCCGGCTGGAACGGCCAGCGCGACG
CGCCCTGGAACAACAGCCGACGCGCCTGGAACAGCCAGTTTCGAGGGCCCTGGAACAGCCAGCACGAGCAGC
CGCCCTGGGGCGGGGGCCAGCGGAGCCACCTTCCGCATGCAGCGGCCCCCACTTCCGGGGGGCCCTTCCCGC
CCCACAGCAGCAGCCGCACTTCAACCAGCTCCGCACCCCACTTCAACCGCTTCCCGCCCCGCTTCATGC
AGGACGACTTCCCGCCACGGCACCCCTTCGAGCGGCCCTATCCCCACCGCTTCGACTACCCCAAGGGGACT
TCCCTGCCGAAATGGGGCCCCCTCACCAACCCCTGGCCACCGCATGCCTCATCTGGCATCAACGAGCACCCGC
CTTGGCTGGACCCAGCAGCCTGACTTCGGCCCTCCCCCATGGCTTCAACGGGAGCCCCACACATGCGGC
GACAGGGCCCGCCCCACATCAACCAGATGACCCAGCCTGGTCCCCAATGTGCCCTACTTCGATCTCCTGCTG
GGCTGATGGCCCCCTCGTGAAGCTGGAAGATCACGAGTACAAGCCTTTGGACCCTAAAGACATCCGCTCCAC
CCCCATGCCGCCAGCGAGAGGCTGCTGGCTGCAGTGGAGGCTTCTACAGCCCCCGTCCCACGACAGGCCCCA
GGAACAGTGAAGGCTGGGAGCAGAACGGCCTCTATGAGTCTTCCGAGCAAAAATGCGGGCCCCGGGAGGAAG
GCCAGGAGAAGAGGAACAGCGGACCCCTCGAGGTCTCGGAGCAGATCCAAGAGTCGAGGGCGTTCTTCTCCCGCT
CCAACCTCAAGATCCTCCAAGTCTTCAGGCTCGTACTCAAGGTCAAGGTGCGGCTCCTGCTCCCGTTCTACTCCC
GCTCCAGATCTAGAAGTCGGAGCAGGTGCGGCTCCTCCAGAAGCCGCTCCCGGTCCAGTCGCGGTCCCGGTCCA
AGTCGTACTCCCCAGGAAGAAGACGCCGCTCACGGTCCAGGAGCCCCACCCCGCTTCTCTGCTGGTCTGGGT
CTAATTCGGCGCCTCCATTCTGACTCAAGGCTCGGAGAAGAGAACAAGGCCATCAGATGCTGGTGAAGATGG
GCTGGAGCGGCTCAGGCGGCTCGGTGCGAAGGAGCAAGGGATCCAGGACCCCATCAAGGGCGGGGACGTCCGGG
ATAAGTGGGACAGTATAAAGGCGTGGGCGTGGCTCTGGATGACCCCTATGAGAAGTACCGCAGGAACAAGAGCT
ACTCCTTCATCGCCCGCATGAAGGCCAGGGACGAGTGTAAAGTAGGCGCCCATGCCGGGAGCCGCGCGGTGGCCA
GCGGTGCCGGCTGTGGGACCTTCTGGCTGACTGGCAGAGGAAGATTGCAGTGACAGCTCAGTTCTTACACCGTC
TCCACTTGTGGAGAGCCACAGGAAGAGAAGGAAGACCAGCGCATGCCAGTGGGAACGCCGTGCTCCATGGCGTG
GAGGGCACGGGTGCCACCCACAAACCACACCAGGAGGCGCTGCAGCCACCAGGGCCCCAGGCTCGTTTTCTTTA
TAGCGAAGCAAAAACACAAGACCCCTCCGCCGAGTAAATTCTTCAGCCACGAAGGGATGGATGTGCATCTGCCC
TAAGTCAGATTGAAGCCTCCTCCTAGGCTCCAGGAGGAGCATGTGCAGGAAGGGTTGGCCTGAGCCAGAGCCGGC
ACCCAGCTCCTTCTCAGCTCCCGCACCCACCGGCCCTGACCTGGCTTCCCTCGGCTGTGTAGGGACAAAG
CCGAAGCCAGTGCCATGACTGCCCGCGGATTGAAAAACAGAAACACAAAACCTTTGACTTGACTTGCGAAGTGAA
GCAGGGTTTTTCATTTTTACTTCTCCTTGGTTTAGGTCTAGAAAGAAGAATACTGACCTGAGAGGAGGCCAGTGAG
ATTCTGAAACCTAATTCTTCAAGGCGTACTGGCCCTTAGTTTCAGTTATTTTAGTTGTATAAGTTGATATTTTTT
TTCTGGAATGTAGCCATTTGCTGTTATCTGGGAAACAAGATTCTAACAGGAAACAGCCTAAGACACTTCAGGTT

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FIGURE 5319B

GAGCGCTGCCTCGGAGTCTGTGCCCCGTCGCGTCCCCTGCTTGAGTTTTGCACTTGGAAGAACCCTGCACCGGCTG
GCGTGTCGACGGCCCCAGTCCCATCCAGAGCATGGAGCCCGACCCAGCCAGCGCCTTCCACTCCATCATTTCAT
TTCACACCCCCGAAGGGAGGGGAGGCCAGGAGGGGAGCTGCTCCTGCCAGAAGCTGGTGGGTGACCGTTGGGAAT
CGGCCACACCTGGTGTCCATGGGCAGCCTGGTGCAATTCCATTCAATTTGTACAGAAACATTTTGA AAAAATTCTT
TTCAATAAGATGCAAAATCTTCCAACTTTTCAACCCAACGTGATGAATATTTGATTTTGTCTAGATTTCTGTGA
GCTGTGAATTGTTAAAATGTATGATTCAGGATAAAACGTAAACACGTGCTGTTAGTAATTTCTTGTGGATTTCAT
TGTTTTGCCTTCAAATAAAGCCTTTTTTTAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5320

MTMEKQKDNPKFSFLFGGEFYSSYYKCKLALQEQQLICKQQTPELEPAATMPPLPQPPLAPAAPIPPAQGAPSMDE
LIQQSQWNLQQQEQHLLALRQEQVTA AVAHAVEQQMQKLEETQLDMNEFDNLLQPIIDTCTKDAISAGKNWMFS
NAKSPPHCELMAGHLRN RITADGAHFELRLHLIYLINDVLHHCQRKQARELLAALQKVVPFIYCTSF LAVEEDKQ
QKIARLLQLWEKNGYFDDSI IQQLQSPALGLGQYQATLINEYSSVVQPVQLAFQQQIQTLKTQHEEFVTS LAQQQ
QQQQQQQQQLQMPQMEAEVKATPPPPAPPPAPAPAPAIPTTQPDDSKPPIQMPGSSEYEAPGGVQDPAAAGPRG
PGPHDQIPP NKPPWFDQPHPVAPWGQQQPPEQPPYPHHQGGPPHCPPWNN SHEGMWGEQRGDPGWNGQRDAPWNN
QPDAAWNSQFEGPWNSQHEQPPWGGGQREPPFRMQRPPHFRGPFPPHQQHPQFNQPPHPHNFNRFPFRFMQDDFP
PRHPFERPPYPHRFDYPQGDFFAEMGPPHHHPGHRMPHPGINEHPPWAGPQHPDFGPPPHGFNGQPPHMRQGGP
HINHDDPSLVPNVFYFDLPAGLMAPLVKLEDHEYKPLDPKDIRLPPPMPPSERLLAAVEAFYSPPSHDRPRNSEG
WEQNGLYEFFRAKMRARRRKQGEKRNSGSPSRSRSRSKSRGRSSSRNSRSSKSSGSYSRSRSRSCSRYSRSRSR
SRSRSRSSSRSRSRQSRSRSKSYSPGRRRRSRSRSTPPSSAGLGSNSAPPIDPDRSGEENKQGHQMLVKMGWSGS
GGLGAKEQGIQDPIKGGDVDRKWDQYKGVGVALDDPYENYRRNKSYSF IARMKARDECK

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FIGURE 5321

GTGCCACATCCTGGCTCTGTGCGCTGGGCTCCCGCCGCTGCTGCGCGCCTGGCGCGTGCCCCCGCGCCGCCCGT
CTCGGGCCCCGGACCCAGTCCGCATCCGTCGTCGGCCCCGCTGCTGCCGCCGCGCTTCTACCCGCGCTACGTGCT
ACCGCTCGCCTTCGGCAAGTACTTCGCGTCCGTCAGCGCACGTGAGCATCTGGAAGGTGCCCGTGTCTATGC
ACACACCGTCAAGGCCACCATGCCCATCTGGGTGGTCCTCCTGTCCCGGATCATTATGAAGGAGAAGCAGAGCAC
CAAGGTATACTTGTCACTCATCCCCATCATCAGCGGTGTCTGCTGGCCACCGTCACCGAGTTGTCTTTTGACAT
GTGGGGACTCGTCAGCGCCCTCGCCGCCACGCTGTGCTTCTCGCTTCAGAACATTTTCTCCAAAAGGTCTTGCG
AGATTACGGATCCACCATCTCCGGCTGCTCAACATCCTGGGCTGCCACGCCGTCTTCTTTATGATCCCCACCTG
GGTTCTGGTGGACCTCTCGGCTTTCCTGGTCAGCAGCGACTTGACCTACGTCTACCGAGTGGCCCTGGACGCTCCT
GCTCCTGGCTGTGAGCGGCTTCTGTAACCTTTGCCAGAAATGTTATCGCCTTCAGCATCCTCAACCTCGTTAGCCC
CCTGAGCTACTCGGTGCGCAATGCCACCAAAAGAAATCATGGTCATCACGGTGTCCCTGATCATGCTGCGCAACCC
AGTCACCAGCACCAACGTCTGGGCATGATGACCGCCATCCTGGGGGTCTTCTCTATAACAAGACCAAGTACGA
TGCAAACCAGCAAGCCAGGAAGCACCTCCTCCCCGTCAACCACAGCAGACCTGAGCAGCAAGGAGCGTCACCGGAG
CCCCTGGAGAAGCCCCACAACGGCCTCCTCTTCCCCAGCACGGGGACTATCAGTACGGCCGCAACAACATCTT
AACAGACCACTTCCAATACAGCCGGCAGAGCTACCCAAACTCGTACAGTTTGAACCGCTATGATGTGTAGAGTCC
AAAGGACAGGACCAGACTGTTGGTGACTCCTTCCCCGGCCCCCACAGCAGTATCAGAACTTCTGACAATCAGTG
AATGTACAACCCAGCCGAGGGGACGGTGCACTCTCCATCAGAAAGCCCTGGGGTTCCTGGCCCCCGTGAGCC
GCAGGAGGATGCGTTGCCGTGAGTGACGCGCGGTGAGCTCTGGGCAACCTAAACAGAGACCAAGTGTCTCATG
CTCTTTCTTCTGGAGTCTGTCTATCTGAGGGCCGTGTCCCTGCGGAGATCTTGGCCACGTTGTACCTTTCCATGT
GGAATTATTTCCCAAGCAGTGTAGCTCAGAGCACTTGTGTCTGCATTCCAGATAACATTGAGGACCTGTGTGAAA
AGCTGGGGTCACTGTGGCTGTAGACCATGAACTGGCAGTGGGGGTGTCCAGGGCGGTGCTTGAGAACGTGAGACT
GGCTAGTTTAAATTCCTGGCGCAGATACGCATAGGACCAACAGGGTCACCAAGCAGACAGGGAGCCCCGCGAGAAT
CATTCAAAACATCCCCAGCCACAGAGATGGATCCAGTTTCTTGGTCATCCCCTTAGCAGTTCAAAAGTTCTTGGC
AAATGTTCCAAAGCAAAAAGCGATTGCAATTAGCATCCAGTTCTTGCAGCCTGGTGTCTGCCCTGCACGTGAGG
GTTGGCATCCACCCAGATCCAGATGGAAGGGAACTTCTCTCTTCTCCTTTGCCTCCTCTTCCCTCACCAGAGCA
GGGCGCTTCTCTTGGGGTGGTGAGAAGGATCTTCGAGAAATCGTGTTCAAGTATTTCAGCTCTATTTCTGTGGCA
CATGTCTTTTGAAGGCATCTTACCTCTTCTGTGATGACTTGGTATGTTGTTTGGTAGAGAGATCTTGATTTTC
GGAGGATCTTGCATTTTCTAGGGAATATTTTGTAGTTGTGTGTGTGTGTTTTGCCTTGGTCCCCATTATGGGA
TGCATTAGGACTGGCCTATGCATCGAAAATCTTTTGTGTTGTAACGTTTAAAAACAAAGTTCCCCGGCCAGGCA
CAGTGGCTCACACCTGTAATCCAGCACTTTGGGAGGCCAAGATGGGCGGATCACGAGGTGAGGAGTTTCAGAGCC
AGCCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAGAAATTAGCCGGGCATGGTGTGCGGTGCCTGT
AGTCCCAGCTCCTCAGGCTGCTGAGGCAGGCGAATTGCTTGAACCTGGGAGGCAGAAGTTGTGGTGAGCCGAGAT
TGTGCATCCAGCCTGGGTAACAGAGCGAGACTCCATCTCAAAAAAACAACAAACAAAGTTCCCACTGGT
GATGCCTGTCTGACACGTTTTGGTATTTAGTAGGAAATGAAGTGTTCGAAGCTTCGAGAGAAGCTTCAAAATTG
TCACAATTGCTGAAAACAGAATGAATCGTGAACATTATCTCAATATTTTGTATAATAGACAAGACCACAGTGTTT
TGGTTCCCTGACCTGTTTTTGTGTTTATGTTAGGATCTGAATCATGTTCTGGGTAAGGGGACGAGGAGCGAACAC
TGCATAAGATTTGGTTTGCCAAATCAGATTCTTTGGTCAAGAGTCAGTTTGGGGCCAGGCGTGGTGGCTCATGC
CTGTAATCTCAGCACTTTGGGAGGCTGAGGTGGGTGGATCACTGGAGTTTGAGACCACCTGGCCAACATGGTGA
AACCCCATCTCTACTAAAAACAAAAATTAGCCAGGCATGGTGGCACCTGCCTGTAATCCCAGCTACTTGGGAGGCT
GAGGCAGGAGAATCACTTGAGCCCAGGAGGTGGAGGTTTCAGCGAGCTGAGATCACACCACTGCACTCCAGCCTT
GGTGACAGAGTGAGACTCTGTCTC

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FIGURE 5322

MPIWVVLLSRIIMKEKQSTKVYLSLIPIIISGVLLATVTELSFDMWGLVSALAATLCFSLQNIFFSKKVLDRDSRIHH
LRLNLILGCHAVFFMIPTWVLVDLSAFLVSSDLTYVYQWPWTLALLAVSGFCNFAQNVIAFSILNLVSPLSYSVA
NATKRIMVITVSLIMLRNPVTSTNVLGMMTAILGVFLYNKTKYDANQQARKHLLPVTADLSSKERHRSPLEKPH
NGLLFQHGDIQYGRNNILTDHFQYSRQSYPNSSYSLNRYDV

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FIGURE 5323

GGCACGAGGGGAACATCTTCATGATGTTCTGCAATGATTGTGCTGTTTCGGCTCTTGAATCCCAGCGATGAAACCAG
GAACTCACTTTCCCGGGATGCCGAGTCTCCATTCCCTCCATTCTGATGACTTCAAGAATGTTTTTGACCAGAAAA
CCGACAACCTTCCCAGAAAGTCCAAGCTCGTGGTGGGTGGAAAAGTGTTCCGCCGAGGTGTGCATGGTTTCCCAGC
CACGTCCCTGTTTTCAAAGATAGTTTTCACTTTGGTCTCTGAATTGAAATGCTGTCTACTGAAAGGGTTTCAGGAG
CGTTTATGTAAGGGGCTGTGATGAAATTGCATTCCCCATAGATAAAAAGAAAAATCATTCTATCCAGAGATCTGA
GCAGAAGGATTGGCTTGTTAGTTTAAACACAGCCGTATTTTTGGACATTCACTGTTACTTGCTGAGTCTGACAGCC
TCTGGGCCCCGCCAGGGGCCCTGTTAACAACCTGCTTTCACATCCCAACAGGGTCTGCTTGGCCACTCAGTGCAG
CTGCGATTAAACCCTAAAGGCTTTAAGGAACGGGCCACCTGTAACAGAGACACCAGCCTTCCCTGTATAGACACTAA
ATTGTTAGCAAGAGTGTTGAGCTAGTTCCTGGTGAAGTGTTTCCACAGAAGACATGTGGAGCAGTTGTGGGGATA
TTAAGGGAACTTTCTCTGCCTTGACCCCTTTGTTAAATAAAATGACTTTGGGAGCCATTCACTGTACAGTTGC
AGGAATGAGAGTGATTTTATGATGTGGTACATTGGGACCATGTTCTAAAACCTTGGGTTTCTGAGTCTGCTTTTT
GAGTAGGTGATTTTGAGGTGAAAAACCAGGGGCCTTCATCTAGGAAATACAGCATTTCAGAAAGCTTCTTTGA
AAGGGAATCCTGGTTTTGTTGCCAAAATGAAACGCCCCGGGGTTGGCGCTGAATCCCACAACGTGTGATTGCTT
GTTGAGTTTTTTGTTGTCTGGTTTTTTTGTGTTGTTGTTTATACCAATAAGAATGAGCCTGAATGTTGGTGGTTT
TTGAAATCCTGACTTGAGGTAAACCTGGAGGAAGGAAAAAAGTAAATATGCAGGCTTTTAGGACTGAGTAGCC
TTGAAAATAAACCTCATTTCTAAAAAGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5324

MPSLHSSIPDDFKNVFDQKTDNLPRKSKLVVGGKVFAEVCMVSQPRPCFQR

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FIGURE 5325A

ATGAGTGTGAAAGAGGCAGGCAGCTCGGGCCGCCGGGAGCAGGC GGCTACCACTGCACATCTACCCCCAGCTG
TCCACCACCGAGAGCCAGGCCTCGTGCCGCGTGACTGCCACCAAGGACAGCACCACCTCGGACGTCAATCAAGGAC
GCCATTGCCAGCCTGCGGGCTGGACGGCACCAAATGTTATGTGCTGGTGGAGGTCAAAGAGTCGGGAGGCGGAGGAA
TGGGTGCTGGACGCCAACGACTCGCCTGTGCACCGGGTGCTGCTATGGCCCCGGCGGGGCACAGGACGAGCACCCCT
CAGGAGGATGGCTACTACTTCCCTGCTGCAGGAGCGCAACGCAGATGGAACCATCAAGTACGTGCATATGCAGCTG
GTGGCGCAGGCCACAGCCACCCGGCGCCTAGTGGAGCGTGCCCTCCTGCCACGGCAGCAGGCGGACTTTGATGAC
CTGTGTAACCTCCCCGAGCTAACCGAGGGCAACCTCCTGAAGAACCTCAAGCACCGCTTCTCTGCAACAAAAGATC
TACACGTACGCGGGGAGCATCCTGGTGGCCATCAACCCCTTTAAGTTCCTGCCCATCTACAACCCCAAGTACGTG
AAGATGTATGAGAACCAGCAGCTGGGCAAGCTGGAGCCACACGTCTTCGCGCTGGCCGACGTGGCCCTACTACACC
ATGCTCAGGAAGCGCGTGAACCAGTGCATCGTGATCTCGGGTGAGAGCGGCTCCGGCAAGACCCAGAGCACCAAC
TTCTCATCCACTGCCTCACCGCCCTCAGCCAGAAGGGCTACGCCAGCGGCGTCGAGAGGACCATCTGGGTGCT
GGCCCTGTGCTGGAGGCTTTTGAAATGCCAAGACAGCCCAACAACAACCTCCAGCCGGTTTGGGAAATTCATC
CAAGTCAGCTACCTAGAGAGTGGCATCGTGAGAGGAGCTGTCGTGAGAAATATCTGCTTGAAAAGTCTCGCCTG
GTGCTCAGGAGAAGGATGAGAGGAACCTACCATGTGTTTTATTATTTGTTACTTGGGGTCAGCGAGGAAGAGCGC
CAAGAATTTAGCTCAAGCAGCCTGAAGATTATTTCTACCTCAACCAGCATAACTTGAAGATTGAAGATGGGGAG
GACCTGAAGCATGACTTTGAGAGGCTCAAGCAGGCCATGGAGATGGTGGGCTTCTCCCCGCCACCAAGAAGCAG
ATTTTGGCGTCTCTCGGCCATCCTGTACCTGGGCAACGTCACTTATAAGAAGAGAGCTACAGGCCGAGAGGAA
GGGTTGGAGGTCGGGCCACCCGAGGTGCTGGACACCCGTGTCGAGCTTCTGAAGGTGAAGCGAGAAATCTTGGTG
GAGGTTCTGACCAAAAGAAAAACGGTGACCGTCAACGACAAGCTTATCCTTCCCTACAGCCTCAGCGAGGCCATC
ACTGCCCGCGACTCCATGGCCAAGTCTCTGTACAGCGCCCTGTTCGACTGGATTGTGCTGCGGATCAACCACGCA
CTCTCAACAAGAAGGACGTGGAAGAGGCAGTCTCGTGCCGTGCCATTGGGGTCTGGACATCTTCGGGTTTGAA
GACTTCGAGAGGAACAGCTTTGAGCAGTTCTGCATCAACTACGCCAATGAGCAGCTGCAGTATTACTTCAACCAG
CACATCTTCAAGCTGGAGCAGGAGGAATATCAGGGCGAGGGGATCACGTGGCACAACATCGGCTACACAGACAAT
GTCGGCTGCATCCATCTCATCAGCAAGAAACCCACGGGCCCTTCTACCTGCTGGACGAGGAGAGCAACTTCCCC
CACGCCACGAGCCAGACCTGCTGGCCAAGTTCAAACAGCAACATGAGGACAATAAGTACTTCTTGGGCACCCCG
GTCATGGAGCCAGCTTTATCATCCAGCACTTCGCAGGGAAGGTGAAATATCAGATCAAGGACTTCCGGGAGAAG
AACATGGACTACATGCGGCCAGACATCGTGCCCTGCTGCGGGGCAGTGACAGCTCCTACGTGCGGGAGCTCATC
GGCATGGACCCCGTGGCCGTGTTCCGCTGGGCCGTGCTCCGGGCTGCTATCCGGGCCATGGCAGTGCTTCGGGAG
GCCGTCAGCCTGCGGGCCGAGAGGGCCGAAAAGGCTGCAGGTATGAGCAGCCCTGGTGCCCAAAGTCACCCAGAA
GAGCTGCCAAGAGGCCAGCACCCCTTCGGAAAAACTTTACCGCGATTGCAACCAAAATGATCAAGAGCATC
AAAGGATTGCCCTGGCAGGGCGAGGACCCCGTAGCCTTCTCCAGTCCCTCAGTCGGCTCCAGAAACCCCGCGCC
TTCATCCTGAAAAGTAAAGGTATCAAACAAAAGCAGATCATTCCAAAGAACCTACTGGACTCCAAGTCCCTGAAA
CTCATCATCAGCATGACTCTGCACGACCGCACCAACCAAGTCCCTACTGCACCTGCACAAGAAGAAAAAGCCACCA
AGCATCAGCGCCAGTTCCAGACATCCCTTAACAAGCTCTTGAGGCACTGGGGAAGGCGGAGCCCTTCTTTATC
CGCTGCATCCGTTCCAATGCTGAAAAGAAAGAGCTGTGCTTTGACGACGAGCTGGTCTCTGCAGCAGCTGCGCTAC
ACCGGCATGCTGGAGACCGTGCGCATCCGGAGGTACAGGCTACAGCGCCAAGTACACGTTCCAGGATTTACCGGAG
CAGTTCCAGGTGCTCCTGCCCAAGGATGCCAGCCCTGCAGGGAGGTCTCTCCACCCTCCTGGAGAAAAATGAAG
ATAGACAAGAGGAACCTACCAGATCGGGAAGACCAAGGTCTTCTGAAGGAGACGGAGCGGCAAGCCCTGCAGGAG
ACGCTGCACCGGGAGGTGGTGGGAAAATCCTGCTGCTGCAGAGCTGGTTCCGGATGGTGTGGAGCGTGGGCAC
TTCTGTCAGATGAAGCGGGCCGCGCTACCATCCAGGCCTGCTGGCGGTCTTACCGGGTCCGGAGGGCGCTGGAG
AGGACGCAGGCTGCCGTGTACCTCCAGGCCTCATGGAGGGGCTACTGGCAGCGGAAGCTCTACCGGCACCAAGAAA
CAGAGCATCATCCGCTGCAGAGCCTGTGTCGGGGGCACCTGCAGCGCAAGAGCTTACGCCAGATGATCTCGGAG
AAGCAGAAGGCAGAAGAGAAGGAGAGGGAAGCCCTGGAAGCCGCAAGAGCAGGTGCTGAGGAGGGCGGACAGGGT
CAGGCGGCTGGAGGGCAGCAGGTAGCTGAGCAGGGGCGGAGCCAGCGGAGGATGGCGGGCACCTGGCATCGGAG
CCTGAGGTGCAGCAAGTGACAGGTCCCCCTAGAGCACTCTCACCTGAGAAGGAGGCCCCAAGCCAGAGAAG
ACTCTCCCACCCAGAAAACCGTGGCGGCTGAAAGTCACGAGAAAGTCCCCAGCAGCCGGGAGAAAGCGTGAGTCG
CGTCGGCAAAGAGGGCTGGAGCACGTCAAGTTCCAGAACAAACACATCCAGTCTCTGCAAGGAGGAGAGTGCCCTC
AGAGAACCTTCCAGAAGGGTCACCCAGGAGCAAGGGGTGAGTCTCTGGAAGACAAAAAGGAGAGCAGAGAAGAT

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FIGURE 5325B

GAAACCCTTCTAGTCGTAGAGACGGAGGCTGAGAACACATCTCAAAAAGCAGCCACAGAGCAACCCCAGGCCATG
GCAGTTGGCAAGGTCTCTGAAGAACTGAGAAGACGCTGCCAGTGGGAGCCCCAGGCCTGGCCAGTTGGAGCGG
CCGACCAGCCTGGCCCTGGACAGCAGGGTCAGCCCACCGCCCCCTGGCAGCGCCCCCGAGACCCCCGAGGACAAG
AGCAAACCATGTGGCAGCCCCAAGGGTTCAAGAAAAGCCCGACAGCCCCGGAGGCTCCACGCAGATCCAGCGGTAC
CTGGACGCCGAGCGGCTGGCCAGCGCCGTGGAACCTGTGGCGGGGCAAGAAGCTGGTGGCCGCCGCCAGCCCTAGT
GCCATGCTCAGCCAGTCCCTGGACCTCAGCGACAGACACCGGGCCACAGGGGCCGCCCTCAGCCCCACAGAGGAG
AGGCGCACCTCCTTCTCCACGAGCGACGTCTCCAAGCTCCTCCCGTCCCTGGCCAAGGCTCAGCCTGCAGCAGAA
ACCACGGACGGAGAGCGAAGTGCAGAAAAGCCAGCTGTCCAGAAGAAGAAGCCAGGCGACGCATCCTCCTCCCA
GACGCAGGGCTGTCCCCGGGCTCTCAGGTCGACTCTAAATCCACGTTTAAGAGGCTTTTTCTGCATAAAACCAAG
GATAAAAAATACAGCCTGGAGGGCGCAGAGGAGCTGGAGAATGCAGTGTCCGGGCACGTGGTGTGGAAGCCACC
ACCATGAAGAAGGGCCTGGAAGCCCCCTCCGGACAGCAGCATCGCCACGCTGCAGGTGAGAAGCGCACCAAGGAA
CCAGGAGGCAAGGGGAAGAAGAACCGAAATGTCAAGATTGGGAAGATCACAGTGTGAGAGAAGTGGCGGGAATCG
GTGTTCCGCCAGATCACCAACGCCAATGAGCTCAAGTACCTGGACGAGTTCTGCTCAACAAGATAAATGACCTC
CGTTCCCAGAAGACGCCCATTTAGAGCTTGTATTATCGAAGCCACCGAGAAGTTCAGGAGCAACATCAAAACGATG
TACTCTGTCCCGAACGGGAAGATCCACGTGGGCTACAAGGATCTGATGGAGAAGTACAGATCGTCTGTCAGCAAC
CTGGCCACTGAGCGTGGCCAGAAGGACACCAACCTGGTCTCAACCTCTTCCAGTCACTGCTAGATGAGTTTACC
CGTGGCTACACCAAGAACGACTTCGAGCCAGTGAAGCAGAGCAAGCTCAGAAGAAGAAGCGGAAGCAGGAGCGT
GCTGTCCAGGAGCACAAACGGGCACGTGTTCCGCCAGCTACCAAGTTAGCATCCCGCAGTCTGTCGAGCAGTGCCTC
TCCTATATCTGGCTCATGGACAAGGCCCTGCTCTGCAGCGTGTGCAAGATGACCTGCCACAAGAAGTGCCTGCAC
AAGATTCAGAGCCACTGCTCCTACACCTACGGGAGGAAGGGCGAGCCAGGCGTTGAGCCTGGCCACTTCGGCGTG
TGCGTAGACAGCCTGACCAGCGACAAGGCCCTCGGTGCCCATCGTGCTGGAGAAGCTCCTGGAACACGTGGAGATG
CACGGCCTGTACACCGAGGGCCTCTACCGCAAGTCGGGTGCTGCCAACCGCACTCGGGAGCTCCGGCAGGCGCTG
CAGACAGACCCCGCAGCAGTCAAGCTGGAGAAGTTCCTCCATCCACGCCATCACAGGGGTGCTGAAGCAGTGGCTG
CGGGAGCTGCCCGAGCCCTCATGACCTTCGCACAGTACGGCGACTTCTCCGAGCCGTGAGCTGCCGGAGAAG
CAGGAGCAGCTGGCTGCCATCTATGCCGTCTGGAGCACCTTCAGAAGCCAACCACAACCTCCCTGGAGAGACTC
ATCTTCCACCTTGTCAGGTGGCCCTGCTCGAGGATGTCAACCGCATGTCACTGGGGCGCTGGCCATTATCTTC
TGCGTGGAGATGCTGATCAAGGAGCAGATGAGGAAATACAAAGTGAAGATGAGGAGATCAGCCAAGTGGAGGCT
GCAGAGAGTATCGCCTTCGCGAGGCTTTCGCTCCTGCGACAAAATGCTCCATGGCCTCTCAAAGTGGGGTTTTCG
TCTCCCTATGAGGGGTTCTGAACAAGAGCCCCAAGACCCGGGACATCCAGGAGGAGGAGCTGGAGGTGCTGCTG
GAGGAGGAGGAGCAGCCGGCGGCGATGAGGACCGGGGAAAGGAGATTCTATTGAACGGATCCAGTCCATCAAGGAG
GAGAAGGAGGACATCACCTACCGGCTGCGGAGCTGGACCCAGGGGCTCGGACGAGGAGAAGCTGGACTCGGAG
ACGTGCGCCAGCACCGAGAGCCTGCTGGAGGAGCGGGCGGGGCGGGGCGCTCGGAAGGGCCCCCTGCGCCTGCT
CTCCCTTGCCCCGGCGCGCCACCCCGAGCCCCCTCCCCACCGTGGCCGCCCCCTCCACGACGAAGGCCGTGCTCC
TTCGTAACGGTCAGAGTGAAGACCCCCGGCGGACCCCCATCATGCCACGGCCAACATCAAGCTCCACAGGC
CTGCCCTCCACCTGCCCTGCTGGGCACCGGTGCCCGGAGGCGGCTGCCCCAGTGCGGCGCGGGAGCCACCT
GCCCGCCGCCCGGACCAGATACATTCCGTGTACATCACGCCCCGGGCGAGACCTGCCAGTGCAGGGCGCCCTGGAG
CCCCTAGAAGAGGATGGCCAGCCACCTGGGGCCAAGCGGAGGTACTCGGATCCCCCAACGTACTGCCTGCCCCCC
GCCTCGGGCCAGACCAATGGCTGAGAGCCACAGCTGACAAAAGTCTGCATGTCCGAGGACGGCCCCCTGCACTGGAG
CTGGGCGCCAGAGCTGCAGAGCTAGTGTTCGGCCCTCAGAGAAGGATCCAGAATCAAAAGCTCAAGAGTGACGTG
AGGTGGGACCGGCCCAAGTGCAGAGTCAAGGCAGGAGAGGCGGCTGGAGCCAGGCCCCCTCGCACGCAGCC
CCCAATCATGGACGCACCTGTGGGGAGCACCATCTCCACCTGCGGCCTCACATCTCCCACTCCCTTTTTG
TACGTTTAACTGTTTCTTTGTACGTGGTTTACGTAACCTTAAACTGTAAACAGCCTTAATGGAAGACCAATGGTT
TTTTATATGTGTATGTACAAAGTTTTCTATTAACTGCTGCCGTCTCCCTTATAACCTGGAGCTGAGCTGTCAGAG
CAGAAGCCACTAGGCCACTGCGCGTCTGAGGCTCAGACCCTGCTGTGGTTGGCTTGGGGTGGCCAATGGGCTGGG
ACCCTCCATGAGAGTTTTGGACACTTGGGTACCTGACCCGTGCTCTCTGACACATGTCTCGGGGGGCGAGCCA
CCTGGCCAATGTGCATTTTTGCACATGCTGGAACCTTCCATGGGGGTCTGGGCTATTGGCTGGAGCCAGGACATG
AGTCAGGGGCACCATGGACCTCACGTGCCAGGGAGACTTGAATGTGGCTGTCACTCTTCGGACGCCAAGGGCTG

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FIGURE 5325C

CAGGAGGCTGCTTTTGGCACTACCCACCCCGTGTGACAGAATAGGAGCCAGCGACTCAGGACTGCTCACGGGTCA
GGAGGGCAACGCCTGAAGTCAGACCTCCCTATAGGTCAACAGGGACAACCTGGGGATCTCTGGAGCAGGGCCCTC
CTCTCTCAGGCTTGGCCCACTCCCCAGACACCTGGACACGTGGCCACAAATCTGGGACAAGGGGCCCCCGCACA
GCATGAAATAAAAAGTGCCTGAGAAGTGTG

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FIGURE 5326

CCTGATCAGCGGGGCCGGGGCGGCGCCGTACAACCTCCGGCTGTAAAGATGGCGGCTTCCTAGTGAGTCGGCGG
CTGATTTAGAAGGAGGTTTCAGGCTACGGTGAGCCGAAGCCACACAGGAGCCATGGAAGTGGCAGAGCCCAGCAGC
CCCCTGAAGAGGAGGAGGAGGAAGAGGAGCACTCGGCAGAGCCTCGGCCCCGCACTCGCTCCAATCCTGAAGGG
GCTGAGGACCGGGCAGTAGGGGCACAGGCCAGCGTGGGCAGCCGCGAGCGAGGGTGAGGGTGAGGCCGCCAGTGCT
GATGATGGGAGCCTCAACACTTCAGGAGCCGGCCCTAAGTCCTGGCAGGTGCCCCCGCCAGCCCCTGAGGTCCAA
ATTCCGACACCAAGGGTCAACTGTCCAGAGAAAAGTGATTATCTGCCTGGACCTGTCTAGAGGAAATGTCACTGCCA
AAGCTGGAGTCGTTCAACGGCTCCAAAACCAACGCCCTCAATGTCTCCAGAAAGATGATTGAGATGTTTCGTGCGG
ACAAAACACAAGATCGACAAAAGCCACGAGTTTGCCTGGTGGTGAACGATGACACGGCCTGGCTGTCTGGC
CTGACCTCCGACCCCCGCGAGCTCTGTAGCTGCCTCTATGATCTGGAGACGGCCTCCTGTTCCACCTTCAATCTG
GAAGGACTTTTCAGCCTCATCCAGCAGAAAAGTGTGCTTCCGGTCACAGAGAACGTGCAGACGATTCCCCGCCA
TATGTGGTCCGCACCATCCTTGTCTACAGCCGTCCACCTTGCCAGCCCCAGTTCTCCTTGACGGAGCCCATGAAG
AAAATGTTCCAGTGCCCATATTTCTTCTTTGACGTTGTTTACATCCACAATGGCACTGAGGAGAAGGAGGAGGAG
ATGAGTTGGAAGATATGTTTGCTTCATGGGCAGCCTGGATACCAAGGGTACCAGCTACAAGTATGAGGTGGCAC
TGGCTGGGCCAGCCCTGGAGTTGCACAACTGCATGGCGAACTGTTGGCCACCCCTGCAGCGGCCTTGCCAGA
GCCATGCTTCCTACAGCCTGCTGGAGGAGGAGGATGAAGCCATTGAGGTTGAGGCCACTGTCTGAACCATCCCTG
TACATCTGCACCTTCTTGTGCAAGGAAGTCCTTGGCCTAAAGCCTTGGTTCTCAAACCTGGGTTCCTTGGGACCTC
CGGGGTGGGGGGTTCAGGAGGCACGTAGGGTACCTTGAGGGTCCTAGGAGGGAAACCCAGGATTCCAGGAGG
GATCCCAGGAAGTGTGGGCACCCATTTCTGTGTCTCCAGCCCATTTCCACTCCTAGTTTGTCTATGGATAATTT
TTGTTCTTCCCTGTGTGATTTTGGCCATCAAAATAAAAAATTTGAGACTCGTTAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5327

MEVAEPSSPTEEEEEEHSAEPRPRTRSNPEGAEDRAVGAQASVGSRSEGEAGEAASADDGSLNTSGAGPKSWQV
PPPAPEVQIRTPRVNCPEKVIICLDLSEEMSLPKLESFNGSKTNALNVSQKMIEMFVRTKHKIDKSHEFALVVVN
DDTAWLSGLTSDPRELCSCLYDLETASCSTFNLEGLFSLIQQKTELPVTENVQTIPPPYVVRTILVYSRPPCQPQ
FSLTEPMKKMFQCPYFFFDVVYIHNGTEEKEEEMSWKICLPSWAAWIPRVFATSMRHHWLGQPWSC TTAWRNCWP
TPCSGLARAMLPTACWRRRMKPLRLRPLSEPSLYICTFLCKEVLGLKPWFSNWVPWDLRGGGVPGGT

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FIGURE 5328

GTGGAATTCATGGCATCTACTTCGTATGACTATTGCAGAGTGCCCATGGAAGACGGGGATAAGCGCTGTAAGCTT
CTGCTGGGGATAGGAATTCTGGTGCTCCTGATCATCGTGATTCTGGGGGTGCCCTTGATTATCTTCACCATCAAG
GCCAACAGCGAGGCCCTGCCGGGACGGCCTTCGGGCAGTGATGGAGTGTCGCAATGTCACCCATCTCCTGCAACAA
GAGCTGACCGAGGCCCCAGAAGGGCTTTCAGGATGTGGAGGCCCAGGCCGCCACCTGCAACCACACTGTGATGGCC
CTAATGGCTTCCCTGGATGCAGAGAAGGCCCAAGGACAAAAGAAAGTGGAGGAGCTTGAGGGAGAGATCACTACA
TTAAACCATAAGCTTCAGGACGCGTCTGCAGAGGTGGAGCGACTGAGAAGAGAAAACCAGGTCTTAAGCGTGAGA
ATCGCGGACAAGAAGTACTACCCAGCTCCCAGGACTCCAGCTCCGCTGCGGCGCCCCAGCTGCTGATTGTGCTG
CTGGGCCTCAGCGCTCTGCTGCAGTGAGATCCCAGGAAGCTGGCACATCTTGGAAGGTCCGTCCTGCTCGGCTTT
TCGCTTGAACATTCCCTTGATCTCATCAGTTCTGAGCGGGTCATGGGGCAACACGGTTAGCGGGGAGAGCACGGG
GTAGCCGGAGAAGGGCCTCTGGAGCAGGTCTGGAGGGGCCATGGGGCAGTCCTGGGTGTGGGGACACAGTCGGGT
TGACCCAGGGCTGTCTCCCTCCAGAGCCTCCCTCCGGACAATGAGTCCCCCTCTTGTCTCCACCCCTGAGATTG
GGCATGGGGTGCGGTGTGGGGGGCATGTGCTGCCTGTTGTTATGGGTTTTTTTTTTCGGGGGGGGGTGCTTTTTTTC
TGGGGTCTTTGAGCTCCAAAAAATAAACACTTCCTTTGAGGGGAGAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA

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FIGURE 5329

MASTSYDYCRVPMEDGDKRCKLLLIGIGILVLLIIVILGVPLIIFTIKANSEACRDGLRAVMECRNVTHLLQQELT
EAQKGFQDVEAQAATCNHTVMALMASLDAEKAQGQKKVEELEGEITTLNHKLQDASAEVERLRRENQVLSVRIAD
KKYYPSSQDSSSAAAPQLLIVLLGLSALLQ

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FIGURE 5330

TTCCGGCGGAAGTTGCTGGGCGCGGAAAGCCGGCAAGACCTTTTTTCCGCCATCATCGCTCACGCGCGCAACCC
TGGCGACGCGTGGTGGCGAGGCTCCGCCCTCCCCACGCCATTGGCCAGCAGCTCCTCGGGCACGCGTATACTGCGC
TTCCGGGCAATCTCCGCCCCCCCCCCCCGCATGGCCTTCTGGGAGTTGTAGTTTCGGTTCGCGAGCGCTGCCGTCCG
GAGGCGCTCCGAGGTTGAGGCTGTGCCCCGCGACCCCGCCTTCGGCGCTCGGCTCGCAGGATGGATCCCGTACC
CGGGACAGACTCGGCGCCGCTGGCTGGCCTGGCCTGGTCGTCGGCCTCTGCACCCCCGCGCGGGGGTTTCAGCGC
GATCTCCTGCACCGTCGAGGGGGCACCCGCCAGCTTTGGCAAGAGCTTCGCGCAGAAATCTGGCTACTTCCTGTG
CCTTAGTTCTCTGGGCAGCCTAGAGAACCCGCAGGAGAACGTGGTGGCCGATATCCAGATCGTGGTGGACAAGAG
CCCCCTGCCGCTGGGCTTCTCCCCCGTCTGCGACCCCATGGATTCCAAGGCCTCTGTGTCCAAGAAGAAACGCAT
GTGTGTGAAGCTGTTGCCCTGGGAGCCACGGACACGGCTGTGTTTGATGTCCGGCTGAGTGGGAAGACCAAGAC
AGTGCTTGATACCTTCGAATAGGGGACATGGGCGGCTTTGCCATCTGGTGCAAGAAGGCCAAGGCCCGAGGCC
AGTGCCCAAGCCCCGAGGTCTCAGCCGGGACATGCAGGGCCTCTCTCTGGATGCAGCCAGCCAGCCAAGTAAGGG
CGGCCTCCTGGAGCGGACAGCGTCAAGGCTGGGCTCTCGGGCATCCACTCTGCGGAGGAATGACTCCATCTACGA
GGCCTCCAGCCTCTATGGCATCTCAGCCATGGATGGGGTTCCCTTCACACTCCACCCACGATTGAGGGCAAGAG
CTGCAGCCCCCTGGCCTTCTCTGCTTTTGGGGACCTGACCATCAAGTCTCTGGCGGACATTGAGGAGGAGTATAA
CTACGGCTTCGTGGTGGAGAAGACCGCGGCTGCCCCGCTGCCCCCAGCGTCTCATAGTCCCTCACCTTCCGCG
GAAAGAGCCCCCTTACTCCACCTCCCCGCCAGCCTGGGGCCACCCCCCTCACTGCATCCTGGGGCCACCCCCAC
TCACTGCATCCTGGGAACCTTCGCCCTGCAAGGCGTTTGCTATCTTCAGCCACTGGGCGGAGCTGCAGCCCTGGA
GGAGGGGGCGGTTCGAGGCTGCGTGGTGTGGGGTCTCCGCCCCACGCCCTGCCGGGCAGGGCTGGAGCTGGAC
AGAAGCCAGTGCCTTTAAGTCATTGTGTCAAAACCTCTGGGGTCCGGAGGCTGTGCGGGTGTCTCTCTGGCAA
TAAACACTACCCGGTTCTCGCC

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FIGURE 5331

GCTTCCTCCTCCCCGCCGCCGCCCTCGCCATGGCCGCGCCGCCCGGGCCCTCATCTCGGTGTTCTCGAGTTCCC
AGGAGCTGGGTGCGGCGCTAGCGCAGCTGGTGGCCAGCGCGCAGCATGCTGCCTGGCAGGGGGCCCGCGCCCGTT
TCGCGCTCGGCCTGTGCGGCGGGAGCCTCGTCTCGATGCTAGCCCCGCGAGCTACCCGCCCGCTCGCCCCCTGCCG
GGCCAGCTAGCTTAGCGCGCTGGACGCTGGGCTTCTGCGACGAGCGCCTCGTGCCCTTCGATCACGCCGAGAGCA
CGTACGGCCTCTACCGGTGAGAGCTACGGGGGCCGCCGGGGATCACGCCGAGAGGGCCACAGCCACCGCCTACA
CCCCGGCTACGGAGGCCGCCGGGGGCCATGCCGAAAGGGCCGCGCCCACTGTCTGCACCTCGGCTACGGGGGCCA
CTGGGTATCATGCCAAGAGGGCCGTGCCCACTGCCTGCACCTCGGCTACGTGGGTGCTGGGGGTTCATGCCAAGA
GGGCCGCGCCACCGGTTGCCCTCGGCTACGGGGGCCACTGGGGGTTCATGCCGAGATGGTCACGCCCACTGCCTG
CACCTCGACTACGGGGGCCGCTGGGGGTCTAGCCGACAGGGCTCGCCCGCCTCCTGAACCCCGCCTACAGTGGGT
CCCGCAGGACCTCACTGCGCCCTCTGCCCTTATCTAGGCAGGGCTAGAAATGGTCTACTTGCACTCCGTCTTCCT
GCTTCATCCGGTGGCCAGGCAGAGGGAACGGCACGGGCAAGGGCCTGGAAGGGAATCCGAGTGGCCCATGTCAA
CGATGCCCATAACTCAGCCCCGTAGCGGACGGGGGCACGAGGAATCAGGTGTAGAGCCTGAATCTCAGGGTCTCTG
ATCTCTAACCCAGCGAGTTCTCGGGGATCCCTGGGCAGCTTTGCCGCTCTGATGGCTCTGCTTCCAGGCTGTTT
ATCTTTGGCTTTGAGCCTCAGGATTCTATAGAATCAGAGGAGCGCGCTCTTTAAAGACAGGGTAACTGAGGCTT
GGAGGAGCCTTGGCCTGGCCGAGGGAAGAGTGGGAGGGGCGGGCTCAAAGGCCAGGAACCTCAAGTCACTTGAGT
CTGGCAGCGTCAAGGGACACCCCATGCTGGGTGTGCCGTCTTCTCTTTGCATAGAATCTTGAGCTGATGATGGTT
TTGTGGGTTTTTTTATTAAGAGAAAAGGCTTACTGAACGCTTTATATGCATCAATTCATGAGTCCGTACACAGCC
TATGAGATGTTACACTCATTTCACAGATGGAGAACTGAGGCCAGAAGAGGTGAGCTTACCTGCCCAAGGCATCT
AGTGACCAGAGGGGCAGCCAGGGTGTGATCCTGCCTCATCTGACTTCGTAGTTGGGTACACATTTAACTTCCGCC
TTCCTGTGTGTGTTTTCCAAGAGCATCATTAAAAAGTTTGGCCGGGTGCGGTGGCTCACGCGTGAATCCCAGC
ACTTTGGGAGGCCGACGTGAGTAGATCACCTGAGGTCAGGATTTCGAGACCAGCCTGGCCAACATGGCAAACTC
TGTCTCTACTA

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FIGURE 5332

AAGATGGCGGCGGTGGCTGGATCTGGGGCTGCCGCGGCTCCGAGCTCACTGCTCCTCGTGGTGGGCAGCGAGTTC
GGGAGCCCCGGGGCTCCTCACCTACGTCTGGAGGAGCTCGAAAAGAGGCATCCGGTCTTGGGATGTCGATCCTGGC
GTCTGCAACCTTGATGAACAGCTCAAGGTCTTTGTGTCCCGACACTCTGCCACCTTCTCCAGCATTGTGAAAGGC
CAGCGGAGCCTGCACCACCGTGGAGACAACCTGGAGACCCTGGTCCTCCTGAACCCATCAGACAAGTCCCTGTAT
GATGAGCTCCGGAACCTTCTGTTGGACCCTGCCTCTCACAAGCTACTGGTGTGGCTGGGCTCTGCCTGGAGGAG
ACGGGGGAGCTGCTGTACAGACAGGGGGCTTCTCGCCTCACCCTTCTCCAGGTCTTGAAGGACAGAGAGATC
CGGGACATCCTGGCCACCACGCCCCACCTGTGCAGCCGCCATACTCACCATCACCCTGCCCCACCTTCGGTGAC
TGGGCTCAGCCGGCACCCGCTGTGCCTGGCCTTCAGGGGGCGCTCCGGCTCCAGCTGCGGCTGAACCCCCCGGCG
CAGCTGCCCAACTCTGAGGGCCTGTGCGAATTCCTGGAGTACGTGGCTGAGTCTCTGGAGCCACCGTCCCCCTTC
GAGCTGCTGGAGCCCCGACCTCCGGGGCTTCTCAGGCTGGGCCGGCCCTGCTGTCTACATCTTCCCTGGAGGC
CTCGGGGATGCCGCCTTCTTCGCCGTCAATGGCTTCACTGTGCTGGTCAACGGTGGCTCAAACCCCAAGTCCAGT
TTCTGGAAGCTGGTGCGGCACCTGGACCGCGTGGATGCCGTGCTGGTGACCCACCCTGGCGCCGACAGCCTCCCC
GGCCTCAACAGCCTGCTGCGGCGCAAACCTGGCGGAGCGCTCCGAGGTGGCTGCTGGTGGGGGCTCCTGGGACGAC
AGGCTGCGCAGGCTCATCTCCCCAACCTGGGGGTCTGTCTTCAACGCCTGCGAGGCCGCTGCGGGCTGGCG
CGCGGCGAGGATGAGGCGGAGCTGGCGCTGAGCCTCCTGGCGCAGCTGGGCATCAGCCTCTGCCACTCAGCCGC
GGCCCCGTGCCAGCCAAACCCACCGTGTCTTCGAGAAGATGGGCGTGGGCCGGCTGGACATGTATGTGCTGCAC
CCGCCCTCCGCCGGCGCCGAGCGCACGCTGGCCTCTGTGTGCGCCCTGCTGGTGTGGCACCCCGCCGGCCCCGGC
GAGAAGGTGGTGCCTGTCTTCCCCGGTTGCACCCCGCCCGCTGCCCTCTGGACGGCTGGTCCGCCTGCAG
CACTTGAGTTTCTGCGAGAGCCGCTGGTGACGCCCCAGGACCTGGAGGGGCCGGGGCGAGCCGAGAGCAAAGAG
AGCGTGGGCTCCCGGACAGCTCGAAGAGAGAGGGCCTCTGGCCACCCACCCTAGACCTGGCCAGGAGCGCCCT
GGGGTGGCCCGCAAGGAGCCAGCACGGGCTGAGGCCCCACGCAAGACTGAGAAAGAAGCCAAGACCCCCCGGGAG
TTGAGGAAAGACCCCAAACCGAGTGTCTCCCGGACCCAGCCGCGGAGGTGCGCCGGGACGCTCTTCTGTGCCC
AACCTCAAGAAGACGAATGCCAGGCGGCACCCAGCCCCGCAAAGCGCCAGCACGTCCCACTCTGGCTTCCCG
CCGGTGGCAAATGGACCCCGCAGCCCGCCAGCCTCCGATGTGGAGAAGCCAGCCCCCAGTGCAGCCTGCGGC
TCTCCGGCTCCAGCTGGTGGCCACGCCAGCCTGGAGCTGGGGCCGATCCAGCCGGGGAGGAGAAGGCACTG
GAGCTGCCTTTGGCCGCCAGCTCAATCCCAAGGCCACGCACACCTCCCTGAGTCCACCCGAGCCCCGCAGAG
GGCAGGAGCGGCTGTGCTGAGCCCACTGCGGGGCGGGGAGGCCGGCCAGACGCTCACCACAGTGACCACA
CCCACGGTGACCAGCCCTCACTACCCGCAGAGGTGGGCTCCCGCACTCGACCGAGGTGGACGAGTCCCTGTG
GTGTCTTTTGAAGGTGCTGCCGCCATCCGCCCCACAGTGAGGCTGGGCTGAGCCTCCCGCTGCGTGGCCCC
CGGGCGGGCGCTCGGCTTCCCCACACGATGTGGACCTGTGCCTGGTGTACCCCTGTGAATTTGAGCATCGCAAG
GCGGTGCCAATGGCACCGGCACCTGCGTCCCCCGGCAGCTCGAATGACAGCAGTGCCCGGTACAGGAACGGGCA
GGTGGGCTGGGGGCCGAGGAGACGCCACCCACATCGGTACGCGAGTCCCTGCCACCTGTCTGACTCGGATCCC
GTGCCCTGGCCCCCGGTGCGGCAGACTCAGACGAAGACACAGAGGGCTTTGGAGTCCCTCGCCACGACCCCTTG
CCTGACCCCTCAAGGTCCCCCACCCTGACCTGACCCATCCAGCATCTGCATGGTGGACCCCGAGATGCTGCCC
CCCCAAGACAGCACGGCAAACGGAGAAGCTCAGCCGCACCCGGAAGCCCTGGCCCGCCCCAACTCACGCGCTGC
CGCCCCAAAGCCACTCCAGTGGCTGCTGCCAAAACCAAGGGGCTTGTGGTGGGGACCGTGCCAGCCGACCACT
CAGTGCCCGGAGTGAGCCAGTGAGAAGGGAGGGCGGGCACCCCTGTCCAGAAAGTCTCAACCCCCAAGACTGC
CACTCGAGGCCCGTCCGGGTACGCCAGCAGCGGCCCGGGGTGTACGCCACCCACCCAAAGTCCCCGGTCTACCT
GGACCTGGCCTACCTGCCAGCGGGAGCAGCGCCACCTGGTGGATGAGGAGTTCTTCCAGCGCGTGCAGCGCGCT
CTGCTACGTATCAGTGGCCAGGACCAGCGCAAGGAGGAAGGCATGCGGGCGTCTGGACGCGCTACTGGCCAG
CAAGCAGCATTGGGACCGTGACCTGCAGGTGACCTGATCCCCACTTTCGACTCGGTGGCCATGCATACGTGGTA
CGCAGAGACGCACGCCCGGCACCAGGCGCTGGGCATCAGGTGTTGGGCAGCAACAGCATGGTGTCCATGCAGGA
TGACGCCTTCCCGGCTGCAAGGTGGAGTTCTAGCCCCATCGCCGACACGCCCCCACTCAGCCCAGCCCGCTG
TCCCTAGATTACGCCACATCAGAAATAAACTGTGACTACACTTG

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FIGURE 5333

MAAVAGSGAAAAPSSLLLVVGSEFGSPGLLTYVLEELERGISWDVDPGVCNLDEQLKVFVSRHSATFSSIVKGQ
RSLHHRGDNLETIVLLNPSDKSLYDELRLNLLDPASHKLLVLAGLCLEETGELLQTGGFSPHHFLQVLKDREIR
DILATTPPPVQPPILTITCPTFGDWAQPAPAVPGLQGALRLQLRLNPPAQLPNSEGLCEFLLEYVAESLEPPSPFE
LLEPPTSGGFLRLGRPCCYIFPGGLGDAAFFAVNGFTVLVNGGSNPKSSFWKLVRHLDRVDAVLVTHPGADSLPG
LNSLLRRKLAERSEVAAGGGSWDDRLRLISPNLGVVFFNACEAASRLARGEDEAELALSLLAQLGITPLPLSRG
PVPAPKTVLFEKMGVGRLDMYVLHPPSAGAERTLASVCALLVWHPAGPGEKVVRVLFPGCTPPACLLDGLVRLQH
LRFLREPVVTPQDLEGPGRAESKESVGSRDSSKREGLLATHPRPGQERPGVARKEPARAEAPRKEKEAKTPREL
RKDPKPSVSRTQPREVRRASSVPNLKKTNAQAAPKPRKAPSTSHSGFPPVANGPRSPPSLRGGEASPPSAACGS
PASQLVATPSLELGP IPAGEEKALELPLAASSIPRPRTPSPESHRSFAEGSERLSLSPLRGGEAGPDASPTVTTP
TVTTPSLPAEVGSPHSTEVDESLSVSFEQVLPPSAPTSEAGLSLPLRGPRARRSASPHDVDLCLVSPCEFEHRKA
VPMAPAPASPGSSNDSSARSQERAGGLGAEETPPTSVSESLPTLSDSDPVPLAPGAADSDDEDTEGFGVPRHDPLP
DPLKVPPPLPDPSSICMVDPEMLPPQDSTANGERQPHPEAPGPPQLTRCRPQSHSSGCCQNGACWWGPCQPTTQ
CPE

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FIGURE 5334

CTTTTGCGGGTGGCGGCGAACGCGGAGAGCACGCCATGAAGGCCTCGGGCACGCTACGAGAGTACAAGGTAGTGG
GTCGCTGCCTGCCCCACCCCCAAATGCCACACGCCGCCCTCTACCGCATGCGAATCTTTGCGCCTAATCATGTCG
TCGCCAAGTCCCGCTTCTGGTACTTTGTATCTCAGTTAAAGAAGATGAAGAAGTCTTCAGGGGAGATTGTCTACT
GTGGGCAGGTGTTTGAGAAGTCCCCCTGCGGGTGAAGAACTTCGGGATCTGGCTGCGCTATGACTCCCGGAGCG
GCACCCACAACATGTACCGGGAATACCGGGACCTGACCACCGCAGGCGCTGTCACCCAGTGCTACCGAGACATGG
GTGCCCCGGCACCGCGCCCCGAGCCCACTCCATTGAGATCATGAAGGTGGAGGAGATCGCGGCCAGCAAGTGCCGCC
GGCCGGCTGTCAAGCAGTTCCACGACTCCAAGATCAAGTTCCCGCTGCCCCACCGGGTCTGCGCCGTCAGCACA
AGCCACGCTTCACCACCAAGAGGCCCAACACCTTCTTCTAGGTGCAGGGCCCTCGTCCGGGTGTGCCCCAAATAA
ACTCAGGAACGCCCCGGT

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FIGURE 5335

MKASGTLREYKVVGRCCLPTPKCHTPPLYRMRI FAPNHVVAKSRFWYFVSQ LKKMKKSSGEIVYCGQVFEKSPLRV
KNFGIWLRYDSRS GTHNMYREYRDLTTAGAVTQCYRDMGARHRARAHSIQIMKVEEIAASKCRRPAVKQFHDSKI
KFPLPHRVLRRQH KPRFTTKRPNTEF

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FIGURE 5336

CGGCGCTGGGGTAAGAAGCCTGCTGAGGGATGCCCAAGAAGTTCCAGGGTGAGAACACCAAGTCGGCAGCGGCCC
GGGCACGTAGGGCAGAGGCCAAGGCGGCCGCTGATGCCAAGAAGCAGAAGGAGCTGGAGGATGCCTACTGGAAGG
ACGACGACAAACACGTCATGAGGAAGGAGCAGCGCAAGGAGGAGAAGGAGAAGCGGCGCCTCGACCAGCTGGAAC
GTAAGAAGGAGACGCAGCGCCTACTGGAGGAGGAGGACTCCAAGCTCAAGGGCGGCAAGGCGCCGCGGGTGGCCA
CGTCCAGCAAGGTCACCCGGGCCAGATCGAGGACACGCTGCGCCGAGACCATCAGCTCAGGGAGGCCCCGGACA
CAGCCGAGAAAAGCCAAGAGCCATCTGGAGGTGCCGCTGGAGGAGAACGTGAACCGCCGCGTGTCTGGAGGAGGGCA
GCGTGGAGGCGCGCACCATCGAGGACGCCATTGCACTGCTCAGCGTGGCGGAGGAGGCGGCCGACCGGCACCCAG
AAAGACGCATGCGGGCAGCCTTCACAGCCTTTGAGGAAGCCCAGCTGCCGCGGCTCAAACAAGAGAACCCCAACA
TGCGGCTGTTCGAGCTGAAACAGCTGCTCAAGAAGGAGTGGCTCCGCTCTCCTGACAACCCCATGAACCAGCGGG
CCGTGCCCTTCAATGCCCCCAAGTGAGCCCAGAACTTGGGGAGCCAGTTTACCCACGGGTGGTCCAGGTCACGAC
TCTGCACGCCCTTAGGCCAGGTCAGCTGCGAGGGTACAGAGCGTTCCGGGGGCCAAGGCGCCGGGCCCCGGGGC
CATGCTCTTATCACCAGCCACCCGTCCTCCCGCCAGAGGGTCCCTGCCCCGAGTGACACCCCATCCCCTCCCATC
CCCCGGCGCGTGTGTGTAGAGCCTCAGGGCTGAGTGCCCAATAAAGGTGGCGGCAAGGCT

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FIGURE 5337

CCTGAAGGCTGTGGGACCCATGATCCTGGTTAGATTCTCCTTCTGCTTGTCCCTGGCTGTGCTGCCTCAGGCACA
TTACTTAACCTTTCTGGGCCCTCTGCCACCTCATCTGTAAAAATGGGCATGATGGTGAAGCCAGGTTGCCAGATAAA
ATATAGGCTACTCAGCTAAATGTGAAGTTCAGATCAATATTGAATTTGGTTTTACTGTAAAGTATATCCCATGCAA
CATTTGGGATATACTTATACTAAAAAAAATTATTCAATTGATGCTATGGTTTGAATGGTCCCCCAAAGTTTCATAT
GTTTGAAACTTAATCCTCAAAGCAGTCCTTTCAACCTTGTCACCTGTGCGCGCGGCCTCTGGTGCAGTGGCGGC
GGCTCCTGTTCCTGCCGCAGCTCTCTCCCTTCTTACCTCCCCACCAGATCCCGGAGATCGCCCGCCATGGCTTT
ACTTACTGCGGCCGCGCGGCTCTTGGGAACCAAGAATGCATCTTGTCTTGTCTTGCAGCCAGCATGCCAGTGC
TTCTCCATGAATTTGAAAGACATATTGGCTGACCTCATACCTAAGGAGCAGGCCAGAATTAAGACCTTCAGGCA
GCAACATGGCAAGAAGGTGGTGGGCCAAATCACTGTGGACATGATGTATGGTGGCATGAGAGGCATGAAGGGATT
GGTCTATGAAACATCAGTTCTTGATCCTGATGAGGGCATCCGTTTCTGAGGCTTTAGTATCCCTGAATGCCAGAA
ACTGCTACCCAAGGCTAAGGGTGGGGAAGAACCCCTGCCTGAGGGCTTATTTTGGCTGCTGGTAACTGGATGTAT
CCCAACAGAGGAACAGGTATCTTGGCTCTCAAAGAGTGGGCAAAAGAGGGCAGCTCTGCCTTCCCATGTGGTCA
CATGCTGGACAACCTTTCCACCAATCTACACCCCATGTCTCAGCTCAGTGCAGCTGTTACAGCCCTCAACAGTGA
AAGTAACCTTTGCCCAAGCATATGCACGGGTATCAGCCGAACCCAAGTACTGGGAGTTGATTTATGAAGACTCTG
TGGATCTAATCACAAGCTACCTTGTGTGCGCAGCAAAGATCTACCGAAATCTCTATGGAGAAGGCAGTGGTATTG
GGGCCATTGACTCTAACCTGGACTGGTCTCACAGTTTCACCAACATGTTAGGCTATACTGATCATCAGTTCCCTG
AGCTCATGCACCTGTACCTCACTATCCACAGTGACCATGAGGGCGGCAATGTAAGTGCCCATACCAGCCACTTGG
TGGGCAGTGGCCTTTTACAGCCCTTACCTGTCTTTCAGCAGCCATGAACGGGCTGGCAGGGCCTCTCCATGGAC
TGGCAAATCAGGAAGTGCTTGTCTGGCTAACACAGCTGCAGAAGGAAGTTGGCAAAGATGTGTGAGATGAGAAGT
TATGAGACTACATCTGGAACACACTCAACTCAGGACGGGCTGTTCCAGGCTATGGCCATGCAGTACTAAGGAAGA
CTGATCCACGATATACCTGTCAGCGAGAGTTTGCTCTGAAACACCTGCCTAATGACCCCATGTTTAAGTTGGTTG
CTCAGCTATGCAAGATTGTGCCAATGTCTCTTAGAGCAGGGTAAGGCCAAGAATCCTTGGCCCAATGTAGATG
CTCAGAGTGGGTGCTGCTCCAGTATTATGGCATGATGGAGATGAATTACTACACAGTCTGTTTGGGGTGTAC
GAGCATTGGGTGTACTGGCACAGCTCATCTGGAGCCGAGCCTTAGGCTTCCCTCTAGAAAGGCCAAGTCCATGA
GCACAGAGGGTCTGATGAAGTTTGTGGACTCTAAGTCAGGGTAAACTGGAGACTGGGGGAAAGTGACTACCAGA
AAGTGAGGAAGCCTAAATAAAAAGTATACTTTTGTTCAGGGGCCTTTAAAGACTTAAGATTAAATTATATCTG
AGGCACTGATAATATGTTTGGAGTTAAATAATAAATTAAGACTTTAAAGATGAAAAATGGTCCCTTCTTCCCTA
ATCAGCTCCTTTCCCTGCCTGGTATGAGTTGCCCATCACAGGCATGGTCTCGGAGGATGACCAGGACTAATGCA
TGTGGTATGAGTAGGTTTGGCCCCCTCACTATCTCTAGAGTGAGAATCTGGCTCCTGTTTCCATGGCTCAAAGCC
GGTTGCAGAGAATCTGCAGTCACTTCGGAGCTTTAGCTTCTTCTCTGCCAAGCCCTCAATAAGCCAGCAAACCAG
GACTCTGCCCTTCTGTTTCCATAGGAATCATGTTGGATAGTCAGCTGTACCAAGCCCTTGGCCTTCCCATGCA
CACAAACACCTCCTAGCAAGACCTGTTGGTTAGCTGGACATGCTTTGGCAATTTTTTTTATACTGCCAAGTGACCA
TAAAGGCATGGCATTGTTGTGACTGGCACCCAATGTTTGATTTTTTTTTTAAACTATCCAATTAATAAGGT
CTGGGAGTGTTCTGTTTCCATTACTTTAATACTCACCCCTTCCAGACTTTCTACACCTGTTTCACTCAGGC
TGAGGATGTTCTGGACCTCCCCCTTTAGTCCCTACTAGAGACCTCTCAACAGATCTGTGGGCCAGTCATTGGG
TTTTATCAGTGCTTAATGTGAACATAAGTTTTTACTTCCAACAGAATACAAGCCACTACCTTCTGACCTCCCCAC
CCCCACCAACCCCAAGCTTTTTAATATGCTGTGGGGCATAGAACAGGGACTCCGGAATGACCAGCATGATATTTT
CAGAGTCTTGTCCCTGGGGTATTAGCACCTCTTTTTGAACAGAGAATTGATTCAAGATTGGACATGGTCTCCTCT
GATTATCAGGTACTGGGGCTGAGGGCATTAAAAATAGTAAGCCTCCTTCTCGTCCCTGCCTCAAGAAATTGCC
TCCTTATTTATCAACATCTTTTTCTCCCTTCCCTGAGAGCTCACAGTACAATGTTTGTTCAGAAGCCCCATT
TGCACAGGTTTTTACGAACTCAGAATGCTCTACTTCTTTTTCTTTGAGAAAGGATTGAGATACGCTCCTGCTGTG
CCCCATCTTTCTCCAACTCCTGCCTGTGTTTGTGTGGATACCCAGTCCCAGAACCACACTGTTGAGTTGGAC
ACACTGTAAACCCCTGGCTAACTGTCAAGTCATGATGCAGACTTCAGGTTGTTCTGTATAAAATGCAAAATAAAT
GTTTTAATTAAC

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FIGURE 5338A

TGGGCACTGAGCACATTTCGGTTATTTCCAGAAACGCTCCGCGGTCTTGGGGATCAGCCTCAGTTGTGCCAGTGCG
GCCGTAGAGAGTGTTCGGCCATTTCCGAAAGCGCTCGGGCGTCTCTAAGCCCAGCCGAGCCAGTCTCGGATCCC
TCGCCGACCCGATTGCACTCGGCTACCTCTGGAACGCTCGGCTGTCTCGGGGGCACCCTCTAGTCCACCAGTCC
CGCGGGATTACGTTTCGGCTACTTCCGGAACACTCGGGTCCCCCTTACCTCAGGCTCCGCCCTCGGCCCTCGGTTT
ATCCGCCCCGGCTCGAATGCGCTCGGGCATTTCGCGCGGGGGCGGGCCAGGCCGCTCGGAACCGTGGCGGGCGGG
AGGCGGGGATCCCGCGGTGCGGCGACGGTGGCCGCGGTGGAGCCACGGGGCGGGCTTGGCTTGGTGTGACGGCG
GCTGCGGGCGGGTGGCGGCCGCGACAGGTGCGGCTCTCAGCTGGCCGAGCATGGTGGCAGCCTGCACCCCTTG
GCTCCCTTGTCTGGTGCAGCCAGCAGAGCCGCCAGCCTTGGGCGCCCATGGCCCTCCGTGTGAGGGCGGTGAGCGG
CCTGCCCCAGCCTCACCTGCTGATGGAGGACTCAATGGCCAGTGACCTGACACCACACCACCAACTCCCTCCCA
CCAGCTGACGAATGGTGGACCCAGTGACGAGTGGCCCTTGTAAGGGTCATGGAATAATTTGAAGCGAGGCATGAG
CGGCCCTGTGGTGCCTGTGACTGCTGGAGATAGAGGTCCCAGCACCCCAAGCCAACCCAGCGGACCCCTCCCAG
CCCTGCTTCAACCAATGGGGCCAGTGGGGCTCCAAGCAGCCACCTAACCATCCAGACCCCAACCCACTCACGCGG
CCATGGCGGGCCCTGAGGGCTTCCAGTACCGCGCTCTGTACCCGTTCCGCCGGGAGCGGGCCGAGGACCTGGAGC
TGCTGCCGCGCGACGTGCTGGTAGTGAGCCGGGCGGCCCTTGACGGCGCTGGGCGTGGCCGAGGGTGGCGAGCGCT
GCCCCACAGAGCGTGGGCTGGATGCCCGGCCCTCAACGAGCGCACACGGCAGCGAGGTGACTTCCCTGGCACCTATG
TGGAGTTCTTGGGGCCCGTGGCCCTGGCCCGGGCCCGGCCCTCGCCACGGGGCCCCCGCCACTGCCCGCCAGGC
CCCGTGATGGGGCCCTGAGCCAGGCCTCACACTCCCGACTTGCCCGAGCAGTTCTCCCCACCTGATGTGGCTC
CCCCTCTTCTGGTGAAGCTTGTGGAGGCCATTGAAAGGACAGGGCTGGACAGCGAATCTCACTACCGCCCGGAGC
TGCCCGCACCGCGTACAGACTGGTCCCTGAGCGACGTGGATCAGTGGGACACGGCAGCCCTGGCTGACGGCATT
AGAGCTTCTGCTGGCACTGCCCGCGCGCTCGTGACCCCGAGGCCCTCGGCCGAGGCGCGCGGGGCCCTGCGGG
AGGCCGCGGGGCCCGTGGGGCCGGCGCTGGAGCCACCGACGCTGCCGCTGCACCGCGCGCTCACGCTGCGCTTCC
TGCTCCAGCACCTGGGCGCGTGGCCAGCCGCGCCCGGCCCTGGGTCCCGCGGTCCGGGCCCTGGGCGCCACCT
TTGGGCGCTGCTGCTGCGCGCGCGCCGCCGCGCTCTCGCCGCGGCCAGGGGGCGCTCCCGACGGGAGTGAGC
CAGCCCCTGACTTCCCGCGCTGCTGGTGGAGAAGCTGCTTCAGGAACACTTGGAAGAGCAGGAGGTTGCGCCCC
CAGCGCTGCCGCTAAACCCCCCAAGGCAAAGCGGCCCTCCACAGTCTTGCCAATGGAGGGAGCCCCACCCCTCC
TGCAGGATGCTGAGTGGTACTGGGGGGACATTTCAAGGGAGGAGTGAAACGAGAACTCCGGGACACTCCCGATG
GCACCTTCTAGTCCGAGATGCTTCTAGCAAGATCCAGGGCGAGTACACGCTGACCTCAGGAAAGCGGGGAACA
ATAAGCTGATCAAGGTCTTCCACCGAGATGGGCATATGGCTTCTCAGAGCCACTACCTTCTGCTCCGTGTGTG
ACCTCATCAATCACTACCGCCACGAGTCTCTGGCCAGTACAATGCCAAGCTGGACACACGGCTCCTCTACCCGTG
TGTCAAATACCAGCAGGACCAGATTGTCAAGGAGGACAGCGTGGAGGCAGTGGGCGCCACGTTAAGGTCTATC
ACCAGCAGTACCAGGACAAGAGCCGCGAGTATGACCAGCTTTATGAAGAGTACACACGGACCTCCAGGAGCTGC
AGATGAAGCGTACTGCAATTGAGGCCTTCAATGAGACTATCAAGATCTTTGAAGAGCAGGGCCAGACTCAAGAGA
AATGCAGCAAGGAATACCTGGAGCGCTTCCGGCGTGAGGGCAACGAGAAAGAGATGCAAAGGATCTGCTGAACT
CCGAGCGGCTCAAGTCCCGCATTGCCGAGATCCATGAGAGCCGCACGAAGCTGGAGCAGCAGCTGCGGGCCAGG
CCTCGGACAACAGAGAGATCGACAAGCGCATGAACAGCCTCAAGCCGGACCTCATGCAGCTGCGCAAGATCCGAG
ACCAGTACCTCGTGTGGCTACCCAGAAAGGCGCCCGGCAGAAAGAAAATCAACGAGTGGCTGGGGATTAAAAATG
AGACTGAGGACCAGTACGCACTCATGGAGGACGAGGACGATCTCCCGCACCACGAGGAACGCACTTGGTACGTGG
GCAAGATCAACCGCACGCAGGCAGAGGAGATGCTGAGTGGCAAGCGGGATGGCACCTTCTCATCCGCGAGAGCA
GCCAGCGGGGCTGCTACGCTGCTCCGTGGTAGTGGACGGCGACCAAGCACTGCGTCTATCTACCGCACGGCCA
CCGGCTTCCGCTTCCGCGAGCCCTACAACCTGTACGGGTGCTGAAGGAGCTGGTGTGCACTACCAGCACGCCT
CGCTGGTGCAGCACAAACGACGCGCTACCGTACCCCTGGCGCACCCAGTGCGCGCCCCGGGGCCCCGGCCCCGCGC
CTGCCGCCCCGCTGAGCACCGAGGACCCGCCCAAGCAGAGCCGCCCTGGGCCCCGTGCGCGCGGAGGCTGCGGC
GGCGGGAGCCACGGACCAGACCAGCCACATCCAGGGTCTCTATTCTCCGGCTCTGGCTCTTGTGTTGGGTCTCT
CTCACCTCTTTCTCTTTCTTCCCTCCCCATTCTCCAGATCTCCCTCTGTCTCCTTTCTCTGTCTTTCTTGG
CCCCTGTCTCTCTCCATGTTGGGGTCTTAACCTCCCCACCCCATATCTACGTGTCTCCGGGCATTGCCCTCTC
CATGGCTCTGGTACCCCTGACCCTCTGCCCTGCCACCGCAGGTCCCCCGGGGTCCCGGAAGCCCCCTTCTGGCTG
CACCTGCCATGTTTACAGAGGGCCCCCTGGGCTGCGCGGCCCGACCTGGGCACCCCTGATTTTAAAGCCATAGACC
TGGGGTCAGGGCAGGAAGGAACCTTCACTCTGCTGCTTCCGAGAACCTCGGCCGTGACATTGCGGGCCGGGCGGGA

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FIGURE 5338B

CCCGCCCCACAGACTCCAACCTTCCCCCTCCAAACCCCGAAGTGAAAACCGCCACCGGGTTACCCCCACAAGGGGGC
CGCTGCGAGAAGTTCACCCACCCCGAAAAATAATTAAACTCGCAGGCCAGGCACGGTGGCTCATGCCTGTAAT
CCCAGCACTTTGGGAGGCCAAGACGGGCGGATCTTTTGAGGTCGGGAGTTGGAGGCCAGCCTGGCCAAAATGGCA
AAACCCCGCATCTACTAAAATACAAAAATTAGCCGGGCGTGGTGGCGGCCGCTGTAAATCCCAGCTACTTGGGAG
GCTGAGGCGTGAGAATCTCTTGAACCCAGGAGATGGAGGTTGCAGTGAGCAGAGATCGTGCCACTGCACTCCAGC
CTGGGTAACAGAGGGAGACTCCTCCGTCTCAAAAAATAAATAAAATAAACTTGTGAGCTGGCCCCAACCCCTCCT
AGGAATCACAGCTCCCCGTACTGGTGCCGCCGAGTGGCCAAGTTGCGACACTGCCCACGGCCCCCTCCCTCTGAT
GCAGATTCAGGGCTTCTCTTCGATCATGTTGGGTTTTGATTCTGTTTTTCCTTGACTGCAAAACCTCTTTCTC
TCCTCTTTTGGGACAAGAGCCCTGGTTTTCTACGCTGCCCTTGGCCACCACACTGCCTGCCCCACGAGCTGGGAG
GCAGGTTTTGTACGGTACGTTGTTATTGATATGATATAAAACATCAAACGTC

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FIGURE 5339

GGACCGCCGCCTGGTTAAAGGCGCTTATTTCCAGGCAGCCGCTGCAGTCGCCACACCTTTGCCCCCTGCTGCGAT
GACCCTGTGCGCCACTTCTGCTGTTCCCTGCCACCGCTGCTGCTGCTGCTGGACGTCCCCACGGCGGGCGGTGCAGGC
GTCCCCCTCTGCAAGCGTTAGACTTCTTTGGGAATGGGCCACCAGTTAACTACAAGACAGGCAATCTATACCTGCG
GGGGCCCCCTGAAGAAGTCCAATGCACCGCTTGTCAATGTGACCCCTCTACTATGAAGCACTGTGCGGTGGCTGCCG
AGCCTTCCTGATCCGGGAGCTCTTCCCAACATGGCTGTTGGTCATGGAGATCCTCAATGTCACGCTGGTGCCCTA
CGGAAACGCACAGGAACAAAATGTCAGTGGCAGGTGGGAGTTCAAGTGCCAGCATGGAGAAGAGGAGTGCAAATT
CAACAAGGTGGAGGCCTGCGTGTGGATGAACTTGACATGGAGCTAGCCTTCCTGACCATTGTCTGCATGGAAGA
GTTTGAGGACATGGAGAGAAGTCTGCCACTATGCCTGCAGCTCTACGCCCCAGGGCTGTCGCCAGACACTATCAT
GGAGTGTGCAATGGGGGACCGCGGCATGCAGCTCATGCACGCCAACGCCACGGGACAGATGCTCTCCAGCCACC
ACACGAGTATGTGCCCTGGGTACCGTCAATGGGAAACCCCTTGGAAAGATCAGACCCAGCTCCTTACCCTTGTCTG
CCAGTTGTACCAGGGCAAGAAGCCGGATGTCTGCCCTTCCTCAACCAGCTCCCTCAGGAGTGTTTGCTTCAAGTG
ATGGCCGGTGAGCTGCGGAGAGCTCATGGAAGGCGAGTGGGAACCCGGCTGCCTGCCTTTTTTTCTGATCCAGAC
CCTCGGCACCTGCTACTTACCAACTGGAAAATTTATGCATCCCATGAAGCCCAGATACACAAAATTCCACCCCA
TGATCAAGAATCCTGCTCCACTAAGAATGGTGCTAAAGTAAAAGTAGTTTAAT

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FIGURE 5340

MTLSPLLLFLPPLLLLLLDVPTAAVQASPLQALDFFGNGPPVNYKTGNLYLRGPIKKSNAPLVNVTLYYEALCGGC
RAFLIRELFPTWLLVMEILNVTLPYGNAQEQNVSGRWEFKCQHGEEECKFNKVEACVLDELDMELAFLTIVCME
EFEDMERSLPLCLQLYAPGLSPDTIMECAMGDRGMQLMHANAQRTDALQPPHEYVPWVTVNGKPLEDQTQLLTIV
CQLYQGKKPDVCPSSSTSSLRSVCFK

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FIGURE 5341

ATGTGCCCAGAAGGATGTCAGTACACGGGGAGGGGCCACACGCTGAGGACCCCGCAGCTAGGCGAGGCAGGAGGC
CTCCACCAGCCTCCAGGCCTCTGCCCCGCGCCGTTCCCTCCGCCTGGAATGCGCCTCCCGCCCCAACCCAACCCCTG
TGTTTACTGCGACTTCCCTCCCTTCGGCCTGGCCCTGACCCCTC⁰GGGGCAGGGCGTGTCCGTGTCTGGCTGCTA
GCACCACCCTGCCCTCAGTCTGTCAGCGGGGAAATGGCTCAGTACCTGGAAAAGCCACGAGTATGTGGTCTGGATG
CAGGCAAAACCCACACATCATGACACTGCCCTGAGAAGTGGGATAACGTCCCTCACCACCTCGTGGAGCTGCTGCT
GAGATAAAGGTGAAAATGCAGAGTCCCGGACCAAGCCCTAGTGTGCCCCAACCTCATCTGCAACTTTCATTGCC
TTGGGGACTTTCAGGATTAAGCGATTCTTGACAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTGG
ATGAAAACCTGGAATAAAATCAGGTACAACCTCCAAAAGGACACTGGAGAAGAACCAAGCTGGGTCTATAAGGAAT
TGCACATGA

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FIGURE 5342

MCPEGCQYTGRGHTLRTPQLGEAGGLHQPPGLCPRRSLRLECASRPNFTLCLLRLPSLRPGPDPSGAGRVRVWLL
APPCPQSVSGEMAYLEKPRVCGRMQAKPTHHDALRSGITSLTTRGAAAEIKVKMQSPGPSVAPTSSATFIA
LGTFRIKRFLDKKQKQNRPIQWIWMKTGNKIRYNSKRTLEKNQAGSIRNCT

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FIGURE 5343

GCAACCTGCACAGCCATGCCCGGGCAAGAACTCAGGACGGTGAATGGCTCTCAGATGCTCCTGGTGTGCTGGTG
CTCTCGTGGGTGCCGCAIGGGGGCGCCCTGTCTCTGGCCGAGGCGAGCCGCGCAAGTTTCCCGGGACCCTCAGAG
TTGCACTCCGAAGACTCCAGATTCCGAGAGTTGCGGAAACGCTACGAGGACCTGCTAACCAGGCTGCGGGCCAAC
CAGAGCTGGGAAGATTCTGAACACCGACCTCGTCCCGGCCCTGCGAGTCCGGATACTCACGCCAGAAGTGC GGCTG
GGATCCGGGCGGCCACCTGCACCTGCGTATCTCTCGGGCCGCCCTTCCCGAGGGGCTCCCCGAGGCCTCCCGCCTT
CACCGGGCTCTGTTCCGGCTGTCCCCGACGGCGTCAAGGTCGTGGGACGTGACACGACCGCTGCGGGCTCAGCTC
AGCCTTGCAAGACCCCAGGCGCCCGCGCTGCACCTGCGACTGTGCGCGCCGCCGTCGCGAGTCGGACCAACTGCTG
GCAGAATCTTCGTCCGCACGGCCCCAGCTGGAGTTGCACTTGCGGCCGCAAGCCGCCAGGGGGCGCCGCAGAGCG
CGTGCGCGCAACGGGGACCACTGTCCGCTCGGGCCCCGGGCGTTGCTGCCGTCTGCACACGGTCCGCGCGTCCGCTG
GAAGACCTGGGCTGGGCGGATTGGGTGCTGTGCGCCACGGGAGGTGCAAGTGACCATGTGCATCGGCGCGTGCCCG
AGCCAGTTCCGGGCGGGCAAACATGCACGCGCAGATCAAGACGAGCCTGCACCGCCTGAAGCCCCGACACGGTGCCA
GCGCCCTGCTGCGTGCCCGCCAGCTACAATCCCATGGTGCTCATTCAAAAGACCGACACCGGGGTGTGCTCCAG
ACCTATGATGACTTGTTAGCCAAAGACTGCCACTGCATATGAGCAGTCCTGGTCCTTCCACTGTGCACCTGCGCG
GAGGACGCGACCTCAGTTGTCCTGCCCTGTGGAATGGGCTCAAGGTTCTGAGACACCCGATTCTGCCCCAAACA
GCTGTATTTATATAAGTCTGTTATTTATTATTAATTTATTGGGGTGACCTTCTTGGGGACTCGGGGGCTGGTCTG
ATGGAAGTGTGTATTTATTTAAACTCTGGTGATAAAAATAAAGCTGTCTGAAGTGT

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FIGURE 5344

MPGQELRTVNGSQMLLVLLVLSWLPHGGAISLAEASRASFPGPSELHSEDSRFRELKRYEDLLTRLRANQSWED
SNTDLVPAPAVRILTPEVRLGSGGHLHLRISRAALPEGLPEASRLHRALFRLSPTASRSWDVTRPLRRQLSLARP
QAPALHLRLSPPPSQSDQLLAESSSARFQLELHLRPQAARGRRRARARNGDHCPLGPGRCCLHTVRASLEDLGW
ADWVLSPREVQVTMCIGACPSQFRAANMHAQIKTSLHRLKPDTPAPCCVPASYNPMVLIQKTDITGVSLQTYDDL
LAKDCHCI

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FIGURE 5345

GAGGAAAAAAGCCACCCTGCGGCCGGGGCCGGAGCTGGAGCCGCCGCTGCCGCCGCCGCCGCCGCCGCTCTGGAG
CTCCCCCGCGCGGACGATGCCTGCCGTGCCCGCTGGGGCTCGGGGCGGTGAGGCCCGGGGCGCGGGGTAGCTAT
GGCGACGGCAAGCGCGGCCCGCGGGCGCCGCTGACAGGTGTGGGCCCCGGCGGGCGGGCGTGGAGCAGCATGTA
CGCCAAGGGGGGCAAGGGTTCGGCCGTGCCCTCCGACAGCCAGGCCCCGCGAGAAGTTGGCGCTGTACGTTTATGA
GTACCTGCTGCACATCGGTGCCCAGAAGTCAGCCCAGACCTTCCTGTCTGAGATCCGATGGGAGAAGAACATCAC
GCTGGGGGAGCCCCCTGGGTTTCCTGCACTCCTGGTGGTGCCTTCTGGGACCTGTACTGCGCGGCGCCTGACAG
AAGAGAGGCCTGCGAGCACTCCGGCGAGGCCAAGGCTTCCAGGACTATAGTGTGTCAGCCGCCCCAGCCCCGT
TATGGGGAGTATGGCCCCAGGTGACACAATGGCCGCAGGCTCCATGGCGGCTGGCTTCTTCCAGGGCCCCCCCCGG
CTCCCAGCCGTCCCCCACAACCCCAACGCCCCCATGATGGGGCCTCACGGTCAGCCCTTCAITGTCACCGCGCTT
CCCAGGGGGCCCCCGGGCCACCCTGCGGATGCCGAGTCAGCCTCCCGCAGGCCTCCCTGGCTCCCAGCCCCCTCCT
CCCTGGCGCCATGGAGCCCTCCCCACGAGCCCAGGGGCATCCGAGCATGGGCGGCCCAATGCAGAGGGTGACGCC
TCCTCGTGGCATGGCCAGCGTGGGGCCCCAGAGCTATGGAGGTGGCATGCGACCCCCACCCAACTCCCTCGCCGG
CCCAGGCCTGCCTGCCATGAACATGGGCCCAGGAGTTCGTGGCCCGTGGGCCAGCCCCAGTGGAACTCGATCCC
CTACTCCTCCTCATCCCCCGGCAGCTACACCGGACCCCCAGGAGGAGGTGGGCCCCCTGGAACACCCATCATGCC
TAGCCCTGGAGATTCCACCAACTCCAGCGAAAACATGTACACTATCATGAACCCCATCGGGCAGGGCGCCGGCAG
GGCTAATTTCCCGCTCGGCCCTGGCCCGGAGGGCCCCATGGCCGCCATGAGCGCGATGGAGCCTCACCACGTGAA
CGGATCCCTGGGCTCGGGCGACATGGACGGGTGCCGAAGAGTTCCCCCGCGCCGTGGCCGGCCTGAGCAACGC
CCCGGGCACCCCGCGGGACGACGGCGAGATGGCGGCCGCCGGGACCTTCCTGCACCCGTTCCTGAGCGAAAGCTA
CTCGCCAGGGATGACCATGAGCGTGTGATGGGGCGGCAGCCCCGGGCCTCTCTGCGGGCCTAGGCTTCTGCCAG
CGCCCCCTGCTCAGGGCGAGGGGCTGAGGTACACCTCGGGCACCTGGACTCCTGGCCAATCAAGGCTTGCCAGC
TGGGAGGCCCCACACGAAAGACTCTTACCATTTTATTAAAAACGCAAGGACCTCAGAGACGTTCTTTCTGTATG
GACCCTTCCTGCCATTTGTATTTTGTCCCAGAGAGAAAGGCTCTTTGGGGGGCCCTCTCCCCAGGACGTCAGGG
GGTGGGGCCCATAAATAAATGGAAGCTGGTTTTGGTTTTTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5346

MYAKGGKGS AVP SDSQAREKLALYVY EYLLHIGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAP
DRREACEHS GEAKAFQDY SAAAAPSPVMGSMAPGDTMAAGSMAAGFFQGPPGSQPSPHNPNAPMMGPHGQPFMSP
RFPGGPRPTLRMP SQPPAGLP GSQPLLPGAMEPS PRAQGHPSMGGPMQRVTPPRGMASVGPQSYGGGMRPPPNL
AGPGLPAMNMGPGVRGPWASPSGNSIPYSSSSPGSYTGPPGGGGPPGTPIMPSPGDSTNSSENMYTIMNPIGQGA
GRANFPLGPGPEGPMMAAMSAMEPHHVNGSLGSGDMDGLPKSSPGAVAGLSNAPGTPRDDGEMAAAGTFLHFPFSE
SYSPGMTMSV

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FIGURE 5347

CGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACACACTGGTGCTGCACAACACGTGTGAG
GACTCGCTGCTGGCCGCACCCATCATGCTGGACCTAGCGCTGCTGACCGAGCTGTGCCAGCGCGTGAGCTTCTGC
ACTGACATGGACCCCGAGCCGCAGACCTTCCACCCCGTGCTGTCCCTGCTCAGCTTCCTCTTCAAGGCGCCACTA
GTGCCGCCCGGCAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTGCATCGAGAACATCCTCAGGGCCTGC
GTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCGCCCAGGGCCCAGCCTCAAGCGAGTT
GGACCCGTGGCTGCCACCTACCCTATGTTGAACAAGAAAGGACCGGTACCCGCTGCCACCAATGGCTGCACCGGT
GATGCCAATGGGCATCTGCAAGAGGGGGCCCCCAAAGAGCCTTTCTCTCTGGGACAAAATACAAATGGCAGGAAG
GGTCCATACAGAAAAGAACGTCTCTGAGGTCCCTTGCGTTTTTAATAAAATGGTAAGAGTCTTTCGTGTGGGGCCT
CCCAGCTGGGCAAGCCTTGATTGGCCAGGAGTCCAGGTGCCCGAGGTGTGACCTCAGCCCCCTCGCCCTGAGCAGG
GGCGCTGGGCAGAAAGCCTAGGCCCCGCAGAGAGGCCCGGGGCTGCCGCCCCATCACACGCTCATGGTCATCCCTGG
CGAGTACTGCGGAGAGAGGAGGGGGCAGCGCGCAGGGGCCGAGTTCAGCTCCGGAAGAGGCTGGGACCCGCCCCC
AGGGACAATGGGGGACAGGGCAGGGCTGGGTCTGGGCAGACATGGGGTGGGGACAGGAGGGAACGGGGGAGGGG
CGATGCATGGGAAGGCCGCCCTGGGGCGCGGGTCCCGGGGTGGGGGCGGATGGGATCGGGACGGTGAAATAGGAG
CGGGAGGTGGTGGGGGGTGGGGAGAGGTTGAGGAGAGG

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FIGURE 5348

MLGGTNTLVLHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLVPPGSPVVNA
LFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVGPPVAATYPMLNKKGPVPAATNGCTGDANGHLQEGP
PKEPFSLGQNTNGRKGOPYRKERL

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FIGURE 5349

GACTTTGTCCCCGAGATGGATGGGGGCGGACATGGGGAGCCAGGGGATGGGACTGCCTGGTAGGTGCTGCTGCC
CACGAAGGGGGAGTAGGTGGCAGTGTGGCTCCGAGGAGATTCTGGCTTTGGAGTTCTGGTCCTCTGCCTGTTTCC
CCTGCAGTGTCTCTGACCCAGACCCCCCTACCTACCCCCCGGAGGCCAGCTTCCCTGCCCAGCTCCACCCCTG
GCTTGTGGCTGGGCTCATGTGTAGCCTCATTGTCTCTTGTAAAGGGGGGATAGGCAGCCATGAGCCCCCTGGGGG
CTGCGGAGCGAGCGAGGTGAACCTATACGCGCCGCGCTCGTGGACGCCTGGCCACTTCCGCCAGGCGGGGACCCG
ATGGCCACGGTGGCTCTGGGTGTGCGGGCCTCGAACC GGCTCTCCAGACGTTGGGCCCCCTCCCTCCCAGCGCGGG
AGAGGCGGGGAAGGGGGCGGGGCGGGGAGGGGCCGAGCGCTTTTCTCCGGAGGTGCGCGGCCCGAGAGCCCCG
GCTGTCCGCCGCCGCTGCCTGAGTCGACTCTGCGCCGCCCGCCGCGATGGAGGCCGCCGCCAGTTCTTCGTGCA
GAGCCCGGACGTGGTCTACGGCCCCGAGGCCATCGAGGCGCAATACGAGTACCGGACGACGCGCGTCAGCCGCGA
GGGTGGCGTTCTCAAGGTGCACCCACGTCCACGCGCTTACCTTCCGGACCGCCCGGCGAGGTGCCCCGGCTCGG
GGTCATGCTTGTGCGGTGGGGCGGGAAACAACGGCTCCACACTCACCGCCGCGGTGCTGGCCAATCGACTGCGTTT
GTCCTGGCCACGCGCAGCGGCCGCAAGGAGGCCAACTACTACGGCTCGCTGACTCAGGCGGGCACCGTGAGCCT
GGGCCTGGACGCCGAGGGCCAGGAGGTGTTCTGTAACCTTCAGCGCGGTGCTGCCCATGGTGGCGCCCAACGACCT
CGTGTTGATGGCTGGGACATCTCGTCGCTGAACCTGGCCGAGGCGATGCGGCGCGCAAGGTGCTGGACTGGGG
GCTGCAGGAGCAACTGTGGCCGACATGGAGGCCCTGCGGCCCCGGCCTTCTGTTTACATCCCCGAATTCATCGC
GGCCAACCAGAGCGCGCGCGCGGACAACCTCATCCAGGCTCGCGTGCGCAGCAGCTGGAGCAGATCCGAGGGA
CATCCGAGACTTCCGGTCTAGCGCGGGGCTGGACAAAGTCATAGTGCTGTGGACGGCGAACACGGAGCGCTTCTG
TGAGGTGATTCCAGGCCCTAACGACACAGCCGAGAACCTGCTGCGCACCATTGAGCTCGGTCTGGAGGTGTGCGC
CTCCACGCTCTTCGCCGTGGCCAGCATCCTGGAGGGCTGTGCCTTCTCAATGGGTCTCCGAGAACACCCCTGGT
GCCCGGAGCTCTTGAGCTCGCGTGGCAGCACCGGGTTTTTGTGGGCGGAGATGACTTCAAGTCAGGCCAGACCAA
AGTCAAGTCCGTGCTTGTGGACTTCTCATTTGGCTCCGGCTCAAGACCATGTCCATCGTGAGTTACAACCACT
GGGCAACAACGATGGGGAGAACCCTATCGGCGCCATTGCAAGTCCGCTCTAAGGAGGTGTCCAAGAGCAACGTGGT
GGACGACATGGTGCAGAGCAACCCAGTGTCTATACGCCCGGCGAAGAGCCTGACCACTGCGTGGTCATCAAGTA
TGTGCCGTACGTGGGTGACAGCAAGCGCGCGCTGGATGAGTATACCTCGGAGCTGATGCTGGGCGGAACCAACAC
ACTGGTGTGCAACAACAGTGTGAGGACTCGCTGCTGGCCGCAACCATCATGCTGGACCTAGCGCTGCTGACCGA
GCTGTGCCAGCGCGTGAGCTTCTGCACTGACATGGACCCGAGCCGACACCTTCCACCCCGTGTGTCCCTGCT
CAGCTTCTCTTCAAGGCGCCACTAGTGCCGCCCGGCGAGCCCGGTGGTCAATGCGCTTTTCCGCCAGCGCAGCTG
CATCGAGAACATCCTCAGGGCTGCGTGGGGCTCCCGCCACAGAACCACATGCTCCTGGAACACAAAATGGAGCG
CCCAGGGCCCAGCCTCAAGCGAGTTGGACCCGTGGCTGCCACCTACCTATGTTGAACAAGAAAGGACCGGTACC
CGCTGCCACCAATGGCTGCACCGGTGATGCCAATGGGCATCTGCAAGAGGAGCCCCCAATGCCACCACTGAGG
CCCCGGTCACACAGTTTCTCGGCTCTTCTCCCCGCTGCCCCCACGACCCTACCTTGAAGGCCCCCACAAATAA
AGGCGCTGCCACTCAGCCCTCTTCCACCTGGGGTCTTGGGGCCTGTGACCTGA

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FIGURE 5350

GGGTGAGGAGGAAGAGGAGGAGGAAGAGGAGGAAGAGGATGACCTGAGTGAGCTGCCACCGCTGGAGGACATGGG
ACAACCCCCGGCGGAGGAGGCTGAGCAGCCTGGGGCCCTGGCCCGAGAGTTCCCTTGCTGCCATGGAGCCCGAGCC
CGCCCCAGCCCCGGCCCCAGAAGAGTGCTGGACATTCTGGGGAACGGGCTGTTGAGGAAGAAGACGCTGGTCCC
AGGGCCGCCAGGTTTCGAGCCGCCCGGTCAAGGGCCAGGTGGTCACCGTACATCTGCAGACGTCGCTGGAGAATGG
CACACGGGTGCAGGAGGAGCCGGAGCTGGTGTTCACCTCTGGGTGACTGTGACGTCATCCAGGCCCTGGATCTCAG
TGTCCCACTCATGGACGTGGGGGAGACGGCCATGGTCACTGCTGACTCCAAGTACTGCTACGGCCCCCAAGGCAG
CAGGAGCCCATACATCCCCCGCACGCGGCCCTGTGCCTGGAGGTGACCCTGAAGACGGCTGTGGACGGGCCTGA
CCTGGAGATGCTCACGGGGCAGGAGCGCTGGCCCTGGCCAACCGGAAGCGGGAGTGCGGCAACGCCCACTACCA
GCGGGCGGACTTCGTCTTGCCCGCCAACCTCTACGACCTCGCCATCAAGGCTATCACCTCCAGCGCCAAAGTGGA
CATGACGTTTCGAGGAGGAGGCACAGCTCCTGCAGTTGAAGGTGAAGTGCTGAACAACCTGGCGGCCTCGCAGCT
GAAGCTCGACCACTACCGCGCAGCCCTGCGCTCCTGCAGCCTTGTGCTGGAGCACCAGCCAGACAACATCAAGGC
TCTCTTCGCAAGGGCAAGGTGCTGGCCCAGCAGGGGGAGTACAGTGAGGCCATCCCCATCCTGAGGGCAGCCCT
GAAGCTGGAACCTTCCAACAAGACGATCCACGCAGAGCTCTCAAAGCTGGTGAAGAAGCATGCGGCGCAGCGGAG
CACGGAGACCGCCTTGTAACCGGAAAAATGCTGGGCAACCCAGCCGGCTGCCTGCTAAGTGCCCTGGCAAGGGTGC
CTGGTCCATCCCATGGAAGTGGCTGTTTGGGGCGACTGCTGTTGCCTTGGGGGGTGTGGCACTCTCTGTGGTCAT
CGCTGCCAGGAACTGACCACCTAGGTGGCTGCCACCCCTCTGCACACCATGGACCCTGCCCTGCGCTCCCCAAC
TCCCCAGGCTCCCTGTCCACTGCCCTCCCTGGTCTGGCCCCCTCCTCCGGGTTAGGGGAGCAAGGATTGGGGT
CGTGCAGCCCAGCCAGCAGGAGGGACTGAGGCCCTCTAGGAGGAAAGCCAGAGGGAGGGGGCCCTCATTCTCTC
AGACCCAGTTTTCCCCCACCTCCTTACCCCGCTGGGCTAGGTCTCCGCCAGGGCTGGCCTCAGTTTCTCTCAA
CAGGCCTGGGGGAGCCCTTCCCTGCCTAGTCCCCGCTGAGTGCCAGCCCCCACCCGCTGCCGCCCCCTG
TCCAGGTTCCCTCCCCGCCACAGTGAAATAAAGCATCCCACCCTGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5351

MGQPPAEEAEQPGALAREFLAAMEPEPAPAPAPEEWLDILGNGLLRKKTLPVGPPGSSRPVKQVVTVHLQTSLE
NGTRVQEEPELVFTLGDCDVIQALDLSVPLMDVGETAMVTADSKYCYGPQGSRSFYIPPHAALCLEVTLKTAVDG
PDLEMLTGQERVALANRKRECGNAHYQRADFVLAANSYDLAIKAITSSAKVDMTFEEEAQLQLKVKCLNNLAAS
QLKLDHYRAALRSCSLVLEHQPDNIKALFRKGKVLAAQQGEYSEAIPIILRAALKLEPSNKTIHAELSKLVKKHAAQ
RSTETALYRKMLGNPSRLPAKCPGKGAWSSIPWKWLFGATAVALGGVALSVVIAARN

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FIGURE 5352

CTTGGCGCAGGCTGGAAGAGGAGCTGGTGAGAAGACAGCGAAATGGCGCCTCCGGCCCCGGCCCCGGCCTCCGGC
GGCTCCGGGGAGGTAGACGAGCTGTTTCGACGTAAAGAACGCCTTCTACATCGGCAGCTACCAGCAGTGCATAAAC
GAGGCGCAGCGGGTGAAGCTATCAAGCCCAGAGAGAGACGTGGAGAGGGACGTCTTCCTGTATAGAGCGTACCTG
GCGCAGAGGAAGTTCGGTGTGGTCCTGGATGAGATCAAGCCCTCCTCGGCCCCTGAGCTCCAGGCCGTGCGCATG
TTTGCTGACTACCTCGCCACGAGAGTCGGAGGGACAGCATCGTGGCCGAGCTGGACCGAGAGATGAGCAGGAGC
GTGGACGTGACCAACATCACCTTCCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCGGATGCCGCC
CTGCGTGCCTGCACCAGGGGGACAGCCTGGAGTGCACAGCCATGACAGTGCAGATCCTGCTGAAGCTGGACCGC
CTGGACCTCGCCCGGAAGGAGCTGAAGAGAATGCAGGACCTGGACGAGGATGCCACCCTCAGCCAGCTCGCCACT
GCCTGGGTGAGCCTGGCCACGGGTGGTGAGAAGCTGCAGGATGCCTACTACATCTTCCAGGAGATGGCTGACAAG
TGCTCGCCACCCCTGCTGCTGCTCAATGGGCAGGCGCCTGCCACATGGCCCAGGGCCGCTGGGAGGCCGCTGAG
GGCCTGCTGCAGGAGGCGCTAGACAAGGATAGTGGCTACCCAGAGACGCTGGTCAACCTCATCGTCTGTCCCA
CACCTGGGCAAGCCCCCTGAGGTGACAAACCGATACCTGTCCAGCTGAAGGATGCCCACAGGTCCCATCCCTTC
ATCAAGGAGTACCAGGCCAAGGAGAACGACTTTGACAGGCTGGTGCTACAGTACGCTCCCAGCGCCTGAGGCTGG
CCCAGAGCTGTCAGGACCATGAAGCCAGGACAGAGGCCAGGAGCCAGCCCTGCAGCCCTCCCCACCCGGCATCCA
CCTGCATCCCTCTGGGGGCAGGAGCCCACCCAGCACCCCATCTGTTAATAAATATCTCAACTCCAAAAAA
AAAAA

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FIGURE 5353

MAPPAPGPASGGSGEVDELFDVKNFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKP
SSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNITFLLMAASIYLDQNPDAALRALHQGDSLECTA
MTVQIILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEEKLQDAYYIFQEMADKCSPTLLLLNGQAAC
HMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPPEVTNRYLSQLKDAHRSHPFIFIKEYQAKENDFDRL
VLQYAPSA

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FIGURE 5354

GACATGTCTGCTAGCCAAGGAGCACCACGAGTGGCCAGCAGCCACCAGAGCTGGGAGAGAGGCCTGGGACGGCCT
TGCCCTCCAGCCTCCAGCTGGAGCCAGCCCTGCCGCCACCTTGACTTCAGACTTACGGCCTCCAGAGCTGTGAGG
AACGAATCCCTGTTGTCTTAACCTGCCCGGGCTGTGGTGCTTTGCCACAGCAGCTCCAGGACATTGAGACAGGTG
ACCTCCCAGGGCCACTGTTTCTCCACCCCTGCACTTACTTCACCAGCTGGAGTGAAGGCAGGGAACCCCTGGGTCC
CCCAGGAGCAGCAGCTGCTGTGAGCATCACAGAAAAGCAGCCCCGGAGAGCAGGCGGTCCAGGCAGGGGCTTGTG
GTCCGTTTCATCTGGCTGCACAGCCGCGACCTCATTGGCAGGACGCCCCGGGGACAAGGAGCATCCATTAGTAATT
GGTTTTGGTTTTGATTTTTGTTTTCTTGAGATACGGTCTTGCTCTGTCGTTTCAGCCTGGCATACAGTGGCACAATC
TTGGCTTACTGCAGCCTTGATCTCCCAGGCTCAAGTGATCATCCCACCTCAGCCTCCCGAATAGCTGGGACTACA
GGCACGCATCACCATGCCTGGCTAATTGTATATTTTTTAGAGATGGGGTTTTGCCTGGCCGGGCGCAGTGGCTC
ACACCTGTAATCCCAAAGCGCTGGGGTTACAGGTGTGAGCCACAGTACCCGGCCCCATTGGTAATTGTAACACCT
TAGGATGACAACATTACAGTACCAACGCTACGACAACCTGGCAGTGTTTATACACCCCTTGTTGCTGGAGCCTCAG
GAAGCTTTGTAAGATGGTCTTGGGAGCTCCTTGCTCCTCCCTGCGATGATCCCTGTAACATGGTCCCTCAGCACG
GGGAAACAGACTCAGACCTGAAGTCACTTGCTGTGGACCTGGCACTGTGGCGAGCCCTCAGTGGAGCCTGGTT
GGTATCAGACATGCCATGCCCTCAGTGACACCTCAGACACGGGCCCTGGGCAGACAGCCCCCAGATGCGCGTGGA
TGCTTACGGGGTCACAGAGCCACGTTTGAACCCAGAAGAACCACAGCTTTGGTCTAGGGTGGCCCCCTCACCTGC
CTTCTCTTTTTAGCTGCTCAATAGCCATGGGGAATGGAGGGTCTGGGTCCAGTTAGGGACATGGAGGCATGGGTG
ACCTGTGCCCTCGGAGCTGAGCCGGTCTCAGCCTTGCTGGGCTCAAGCCTGGCCCTGGCCCGCAGCACACTGG
CCATCTTCAGGGTGCAGCCAGCACCCTGGGCTCTCAGGGACTGAGGGCAGCTGCCCTGGCAGTGGGGGTGCCCCA
GGGCTCCCATCCTTCTGCACGGCCCCCTCGGCACCCAGGCCGACCTCCTGCTAGAAGACGTGGCCTTGAAGCCCAC
AGGGTTGATGGGTTATGGTCAGGAGTCCCAGCTGGGCCCACCAGCCTCCTCAGGAAGGCGGGTGAGGTGGTGTG
AGACTGACGGTGCCTCCTCATGTCCCCTTGGAGCGCCCCACCCACATCTCCCGGCTCGGGTCTTGCTGGCC
CAGCATGAGAGGTGCTTCATAGGAACGGAGGGAGGACATGTCGGGACAGCTCGATGCTCGGCTGCTGCTGCTCT
GCACCCCCAGGGCCTGGCTCACCTCTCTGGACCTGTCTGCTTCCAAGGAAGGGGACCCTCTGAGGTCCCACAGA
GGCCACCCAGCTGTGGGTGCTGAGCATCTCTGTCTTGCAAGGACAGCATCGTGGCCGAGCTGGACCGAGAGATG
AGCAGGAGCGTGACGTGACCAACACCACCTTCTGCTCATGGCCGCCTCCATCTATCTCCACGACCAGAACCCG
GATGCCGCCCTGCGTGCGCTGCACCAGGGGGACAGCCTGGAGTGGTGAGTGGCTCCCTGCTCTGGGGCCAGCCC
AGGGAGGCAAGTGCCCCCTGCCACATCTCCAGGCTGCGCACGGCCTCGCTGGCTGTCTCATGGGAGCAGAGAAA
GGTGGTGCTGAAATGAGGCCCTGGCCTGCTGTCCAGGCTCCAGCTCCCCTGCCAGTGTGGGAGGCACTCCCATC
TGCGCACCAGGCTGCAGATCCAAGGACACGGTGCCAGGCTGCAACCCTCTGTTCCCAAGGGCAGAGCAGAAAAGC
GGCTTTGTCTCTGCTCGGTTTTCTGTGTCCCCACCCCCACGAAGCCTTCTGTGTCTCGGCCCTGGGCCAGTCTC
TCAGGCCTCCCCGGGCCCCCATACCGGCCCTCCTCCAGGGCCCTCTGGGGTTGGGGTGCTGAAGCCCTGCAAGG
TTGGTGCCCCCTCCACCCTAGGATGTGACTCCGGGCCATGTCCAGGGCACTGGTCACAGAAAGTGTGTGCTAGTTC
TTCCCCGTGAGCTGTCCCTGCAGTGCCTGCCTTCCACTGTGAGTTGCAAGCTGGGCATTTTCATGGTCGCTGTGGA
TCTGCTCCCATCCACCTCCATCCACAGAGGGCTTAGAATTGCAAGGCGAGCCAGGCATGGTGACATGCACCTAT
GTTTCCAGCTACTTGGGAGGCGGAAGCAGGAGTATCCCTTGAGTCTGGGAGGTGGAGGCTGCAGTGAGCCGTGAT
GGTGCCACTGCACTCCAGCCTGGGTGGCAGAGCCAGACCCTGACTCACACAC

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FIGURE 5355

GCAAAACATTTCCCTGCTGGGGGCGGCGACCACCGTGAGCGTCCCGGAAGGGGCGGCAAGACGCCTCCGTGCGG
CACGAGGTGGCCTCGTTGGCTTTACCTTGGTTCGCGGTCTGCTCCTTGGTTATCGTGAGCGTCCGCGAGTCTCTGGG
AGGCCAAGCCTAGGGGCGCCACAGCGCCTGCGCGCTACGGCGGCGGAAGGGGCTAGAGGCGGCTCCCTGGGTG
ACAACCGCGCGCCCCACCTTTCCCCACGTGGCCGCGAAGACCGGCTCAGGAGCATCTATCGGCTGCACGCCAACA
TCAACACAGGCGAAGATGGTCTCCAAGCGCATTGCCCAGGAGACCTTTGATGCAGCTGTGCGCGAGAACATCGAG
GAGTTTGCGATGGGGCCAGAGGAGGCAGTGAAGAGGGCCGTGGAGCAGTTTGAATCGCAAGGGGTGATCTGAGC
AACATTGTAAAGACGGCACCTAAAGTCTCTGCAGACGGATCCCAGGAGCCACACATGACATCCTGCAGATGCTC
AGTGACCTCCAGGAGTCTGTGGCCAGCTCTCGCCCCAGGAGGTGTCAGCATACCTCACCCGCTTCTGCGACCAG
TGCAAACAGGACAAGGCCTGCCGCTTCCTCGCGGCGCCAGAAGGGGGCCTACCCCATCATCTTCACTGCGCTGGAAG
CTGGCCACTGCAGGTGACCAGGGCCTTCTGCTCCAGTCCCTCAATGCCCTGTGCGGTGCTGACTGATGGACAGCCA
GACCTCCTGGATGCCCAGGGCCTGCAGCTCCTAGTGGCCACGCTGACCCAGAATGCTGATGAGGCTGACCTGACC
TGCTCTGGGATCCGCTGTGTGCGTACGCTTGCCCTGAAACATGAACAGAATCGGCAAGACCTGGTGAAAGCTGGC
GTGCTGCGCTCTGCTGACTGGTGCCATCACCCATCATGGCCACCACACTGACGTGGTCAGGGAAGCCTGCTGGGCC
CTGCGTGTCTGACCTTCGATGACGACATCCGTGTGCCCTTTGGCCATGCCACAACCATGCCAAGATGATTGTG
CAGGAGAACAAAGGCTTGAAGGTGCTCATCGAAGCCACCAAGCGTTCTTGATAACCTTGGCATCCTGAGCGAG
CTCTGTGGAACCTGTCCCGCCTGGCCATTGCAACGAGTTCTGCCAGGAGGTCGTCGACCTCGGGGGCCTGAGC
ATTCTGGTGTCCCTGCTAGCCGACTGCAATGACCACCAGATGAGGGACCAGAGCGGCGTTTCAAGAGCTCGTGAAG
CAAGTGCTGAGCACCCCTGCGAGCCATCGCAGGCAACGACGACGTGAAAGATGCTATTGTCCGTGCTGGTGGGACG
GAGTCCATCGTGGCTGCTATGACCCAGCATCTGACCAGCCCCAGGTGTGTGAGCAGAGCTGCGCGGCCCTGTGC
TTCCTGGCCCTGCGTAAGCCCGACAACAGCCGCATCATCTGGAGGGTGGCGGGGCTGTGGCAGCACTGCAGGCC
ATGAAGGCACACCCGCGAGAAGGCCGGCGTGCAGAAACAGGCTTGCATGCTGATCCGAAACCTGGTGGCCACGGC
CAGGCCTTCTCGAAGCCCATCCTGGACCTGGGGGCTGAGGCACTCATCATGCAGGCCCGATCTGCCACCCGTGAC
TGTGAGGACGTGGCCAAGGCCGCCCTGCGGGACCTGGGTGTGTCATGTCGAGCTCCGAGAGCTGTGGACAGGCCAG
AGGGGCAACCTGGCGCCATGACCCAGGCCAGTCTGGGCCGTGACTCTGGGTGAGTCGTGTGACTCAGGAATGG
GGGTAGATCCATGTCTCCACTGTCCCCATTAGTTCTGTCCCCTTCACAATGAGAAGTGTCTTCTGGCAGGCC
TAGGTAAAGGGTCGGGGGAGGGGGAGCCTTGTAGGGAGGCCTCTACACAGAAGAAAGCAGCCCCCATGTCCAG
CCACTTCTGGGTCCAGCCAGCAGCAGGATGTTACTGTCTGCTCCTTCCCCAGCCCCACGCCCTACCAGAGG
GGGCAAAGGGCAGTCCCATCACTCACTGCCCTGTCTGAAATGTGGCAGCCACTGTGGGCCAGGCTCAGGGCAGG
GCAGGCGATTCCAGTGGGGTTGGGCCCCCTGGCGCCTGCTGCTTACTGCAGTTTCATGCAGGCCTCTGCTCCTTG
TCTTTCTTACCTGTAAATGGGTCTCAGATGCTCCGCCCTGCTTGGCCCCAGCTTGTCTGTCTTGGGTCTCTGGG
CCAGCCAGGATACCTGATAATAAAAGATCATTGGGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5356

MVSKRIAQETFDAAVRENIEEFAMGPEEAVKEAVEQFESQGVDSLNI VKTAPKVSADGSQEPTHDILQMLSDLQE
SVASSRPQEV SAYLTRFC DQCKQDKACRFLAAQKGAYPIIFTAWKLATAGDQGLLLQSINALSVLTDGQPDLLDA
QGLQLLVATLTQNADEADLTCSGIRCVRHACKHEQNRQDLVKAGVLP LLTGAI THHGHHTDVVREACWALRVMT
FDDDIRVPFGHAHNHAKMIVQENKGLKVLI EATKAFLDNPGILSEL CGTLSRLAIRNEFCQEVVDLGGLSILVSL
LADCNDHQMRDQSGVQELVKQVLSTLR AIAGNDDVKDAIVRAGGTESIVAAMTQHLTSPQVCEQSCAALCFLALR
KPDNSRIIVEGGGAVAALQAMKAHPQKAGVQKQACMLIRNLVAHGQAF SKPI LD LGAEALIMQARS AHRDCEDVA
KAALRDLGCHVELRELWTGQRGNLAP

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FIGURE 5357

GGCCGGTGGGTGAGTGCACCGCGTTCTCGCACGCGTCAATGGCGGTCCTCGGAGTACAGCTGGTGGTGACCTGCT
CACTGCCACCCCTCATGCACAGGCTGGCGCCACACTGCTCCTTCGCGCGCTGGCTGCTCTGTAACGGCAGTTTGT
CCGATACAAGCACCCGTCAGAGGAGGAGCTTCGGGCCCCTGGCGGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCG
GTGGGCCAATGGCCTTAGTGAGGAGAAGCCACTGTCTGTGCCCCGAGATGCCCCGTTCCAGCTGGAGACCTGCCC
CCTCACGACCGTGGATGCCCTGGTCCTGCGCTTCTTCCTGGAGTACAGTGGTTTTGTGGACTTTGCTGTGTACTC
GGGCGCGCTGTACCTCTTCACAGAGGCCCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTT
CTGGTGCCCTGCTCACGGTGACCTTCTCCATCAAGATGTTCTTGACAGTGACACGGCTGTACTTCAGCGCCGAGGA
GGGGGGTGAGCGCTCTGTCTGCCTCACCTTTGCCTTCTTCTGCTGCTGGCCATGCTGGTGCAAGTGGTGCG
GGAGGAGACCCCTCGAGCTGGGCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTTCTGAAGAA
GCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGGTGGGCTCTGTGCT
GGGTGCCTTCTCACCTTCCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACTGACCATGTGCGAGGACAG
ACCCATGCTGCAGTTCTCTGTCACACCAGCTTCTGTCTCCCCTGTTTCATCCTGTGGCTCTGGACAAAGCCCAT
TGCACGGGACTTCTGTCACACAGCCGCGCTTTGGGGAGACGCGTTTCTCCCTGCTGTCCGATTCTGCCTTCGACTC
TGGGCGCCTCTGGTTGCTGGTGGTGCTGTGCCTGCTGCGGCTGGCGGTGACCCGGCCCCACCTGCAGGCCTACCT
GTGCCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGGGAGGCTGGCCGATCGAAGCCCGTGAAATCCAGCAGAG
GGTGGTCCGAGTCTACTGCTATGTGACCGTGGTGAGCTTGACGTACCTGACGCCGCTCATCCTCACCCCTCAACTG
CACACTTCTGCTCAAGACGCTGGGAGGCTATTCTGGGGCTGGGCCCAGCTCCTCTACTATCCCCCGACCCATC
CTCAGCCAGCGCTGCCCCATCGGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGGATTGCCGGGGCTCT
GGGTGGCCTGCTTACTCCCCCTCTTCTCCGTGGCGTCTTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCT
GCTCGCCAGCCTTTTCGGCCTCTACTTCCACCAGCACTTGGCAGGCTCCTAGCTGCCTGCAGACCCTCCTGGGGC
CCTGAGGTCTGTTCTGGGGCAGCGGGACACTAGCCTGCCCCCTCTGTTTGCGCCCCCGTGTCCCCAGCTGCAAG
GTGGGGCCGGACTCCCCGGCGTTCCCTTACCACAGTGCTGACCCGCGGCCCCCTTGGACGCCGAGTTTCTGC
CTCAGAACTGTCTCTCTGGGCCAGCAGCATGAGGGTCCCGAGGCCATTGTCTCCGAAGCGTATGTGCCAGGTT
TGAGTGGCAAGGGTGATGCTGGCTGCTCTTCTGAACAAATAAAGGAGCATGCCGATTTTT

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FIGURE 5358

CCGGACGCCGCACGGCTCCTGTTCCGGTGTCTAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCTTTGAGAGACG
AGTTGGGGGAGTCTCCACGCATTACCCACTCGGGCCGCAAAAACTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCCTCAGAACTTGGGGACCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCTCTCCACAGGGCAGCTCCCTGAAGCACTCCACCCTCTCACCAACCGGCAGCGAGGGAACGAGGTGTC
AGCTCTGCCGGCCACCCTAGACTGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTG
GGCTCCGCCTTTGGAGAGATTGAGACCGTTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAA
AGAGCGAGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGA
CGTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACTGAAATG
CGTTGAGGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGC
CGTGGCCCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGT
GCCCCTGACCCTGAGTGAAGGCCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGG
GGAAACCCAGAAGTGAATCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATA
AACCTTCTGTGCAGAATGA

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FIGURE 5359

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQGSSLKHSTTLTNR
QRGNEVSALPATLDCDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADPHILAKERESALSLASTGGYTDIV
GLLLERDVDINIYDWNNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYTPMDLAVALGYRKVQQVIENHILK
LFQSNLVPADPE

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FIGURE 5360

CCGGACGCCGCACGGCTCCTGTTCCGGTGTGAGAGGGCCCGCCCTCCCCGCTCCTCAGTCTTTGCGGACAAGAAA
GGGGCTGTGTGAGACGCAGGGAAGGAGGCACACCCGGGGGTGGCGCAGTGAGGAGGGGGCGCGACGGCCAGGAGG
CTGGTGGAGCGACACCCAGGCAGGAGAGGGGGGAAGAACTCTCTCCCTTTCTGAACCCCTTTTCTTTGAGAGACG
AGTTGGGGGAGTCTCCACGCATTACCCACTCGGGCCGCAAAAACCTCCCTTCTTTAGCCCTCTGCCCCCGCCCTT
GCTTATAAGCCTTTGAGACCGCAGAAGGGACCTTGTGTGGAACGGGACGGCCAAGAGGAAGCCAGATCGCTGAG
GGTCCGGTCTCCAGTTTGCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTTGA
GAGAACTGGGCTTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCCCATGGAGCTTACCCAGCCTGC
AGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACCCCTGAAGACCCCGGAGAGGAGGCTGC
AGATGGCTCAGACACTGTGGTCTCCTCAGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAG
TGTTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAACGAGGT
GTCAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGACCAGCTGAA
GGAGCATTGTGCGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTC
CGCCTTTGGAGAGATTGAGACCGTTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAAGAGCG
AGAGAGCGCCCTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGA
CATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACACGTAATGCGTTGA
GGCCTTGCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGC
CCTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGC
TGACCCTGAGTGAAGGCCCGCTGCCGGGGACTCAGACACTCAGGGAACAAAATGGTCAGCCAGAGCTGGGGAAAC
CCAGAACTGACTTCAAAGGCAGCTTCTGGACAGGTGGTGGGAGGGGACCCTTCCCAAGAGGAACCAATAAACCTT
CTGTGCAGAATGA

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FIGURE 5361

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHSTTLTN
RQRGNEVSALPATLDSLSIHQLAAQGELDQLKEHLRKGDNLVNKPDERGFTPLIWASAFGEIETVRFLLEWGADP
HILAKERESALSLASTGGYTDIVGLLLERDVDINIYDWNGGTPLLYAVRGNHVKCVEALLARGADLTTEADSGYT
PMDLAVALGYRKVQQVIENHILKLFQSNLVPADPE

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FIGURE 5363

MQEPRRVTHCLGKRGVKTPLQPGSAFLPRVRRQSFTARSDSYTTVRDFLAVPRTISSASATLIMAVAVSHFRPG
PEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRRRLQIEDFEA
RIALLPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPLIGELYGLRTTEEALHASHGFMW
YT

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FIGURE 5364

GCCCCCTCCCCGCCCCGCTCCCGGCGCGGGTGGCCGAGGCGTAGCGCTGCGACCCCCGCACCCCTGCTAACATGG
CGCTGCGAGTGGTGCGGAGCGTGCGGGCTCTGCTCTGCACCCCTGCGCGCGGTCCCGTCACCCGCCGCGCCCTGCC
CGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGCACTGGACCCGCTCTGCTCTCGGTGCGTA
AATTCACAGAGAAACACGAATGGGTAAACAACAGAAAATGGCATTGGAACAGTGGGAATCAGCAATTTTGACACAGG
AAGCGTTGGGAGATGTTGTTTACTGTAGTCTGCCTGAAGTTGGGACAAAATTGAACAAACAAGATGAGTTTGGTG
CTTTGGAAAGTGTGAAAGCTGCTAGTGAACCTCTATTCTCCTTTATCAGGAGAAGTAACTGAAATTAATGAAGCTC
TTGCAGAAAATCCAGGACTCGTAAACAAATCTTGTTGTGAAGATGGTTGGCTGATCAAGATGACACTGAGTAACC
CTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATACATAAAATCTATTGAGGAGTGAAAAATGGA
ACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTCTTAAATTAGTGGTGGATAGAAGACTTAG
AATAGAACTTTTAATATTACCGATGGGGGAAAAAACTACTGTTAACACTGCTAATGAAAGAAAAATGCCTTTAA
CTTTCTAATGATTATAGATAAATATAATATGCATCTTTTTCACAATATCCTATGATTTTTTAGACTAGGCTCTAGT
GTTTCAAGATTCATGAAATTATCCATGGTAAAACTAGTTATAAAAAATTACATAATTCAAAGATAACATTGTTATT
CTTAAGCCTTATATAATATTGTAACCTGCATGTATCCATACCTGGATTGGGATGAAATACTTAATGATCTTTCC
ATTGGAAATAACTGGAAGTGAAGAGGTTTTGTGCTTGTACAGTGTGAGATGAGGAACACCACTATTTTAATTTT
GCGATACACTGCATTTGCTGGTGTCTATTTTTTATACAGTGAAGCAACAGCTTTGCAGCAAAATAATAAAATACTTC
TTTGTT

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FIGURE 5365

MALRVVRSVRALLCTLRAVPSPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTTEKHEWVTTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCCEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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FIGURE 5366

TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTAATGTGGTGGATGCTGGCTCGGGAAGTTCTG
CGCATGCGTGGCACCATTTCCTCGTGAACACCCATGGGAGGTCATGCCTGATCTGTACTTCTACAGAGATCCTGAA
GAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAAGGAGGAATTCAGGGTGAATGGACTGCT
CCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGAAGGTGTGCAGGTGCCCTCTGTGCCT
ATTCAGCAATTCCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGAAGACTGGTCTGCAGCTCCCACTGCTCAG
GCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGCATAGGCTCTTAAGCAGCATGGAAAA
ATGTTTATGGAAAATAAACATCAGTTTCT

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FIGURE 5367

GCTTTTCCATGCTACCTGCAGAGGGGTCCATACGGCGTTGTTCTGGATTCCCGTCGTAACTTAAAGGGAACTTT
CACAAATGTCGGGAGCCCTTGATGTCTGCAAATTAAGGAGGAGGATGTCCTTAAGTTCCCTTGACGACAGGAACCCA
CTTAGGTGGCACC AATCTTGA CTTCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCAT
AAATCTCAAGAGGACCTGGGAGAAGCTTCTGCTGGCAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGT
CAGTGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAAT
TGCTGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCTGGGAGCCACGGCTTCTTGTGGT
TACTGACCCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCGCTGTGTAA
CACAGATTCTCCTCTGCGCTATGTGGACATTGCCATCCCATGCAACAACAAGGGAGCTCACTCAGTGGGTTTGAT
GTGGTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTAACACCCATGGGAGGTCATGCC
TGATCTGTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAGAAGGCAGTGACCAA
GGAGGAATTT CAGGGTGAATGGACTGCTCCCGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTC
TGAAGGTGTGCAGGTGCCCTCTGTGCCTATT CAGCAATTCCTACTGAAGACTGGAGCGCTCAGCCTGCCATGGA
AGACTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCT
TGCATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAAATAACATCAGTTTCT

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FIGURE 5368

MSGALDVLQIKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFWEPRLLVVTDPRADHQPLTEASYVNLPTIALCNT
DSPLCYVDIAIPCNNKGAHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPREEIEKEEQAAAEKAVTKE
EFQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSAQFAMEDWSAAPTAAQATEWVGATTDWS

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FIGURE 5369

CTTTCCGGTGATGACAACCTTCCCACAAGAGGACATGCCTCTCACAAAGGATCTCCTTCATCCCTCTCCAGAAGA
GAAGAGGAAACACAAGAAGAAACGCCTGGTGCAGAGCCCCAATTCCTACTTCATGGATGTGAAATGCCCAGGATG
CTATAAAGTCACCACGGTCTTTAGTCATGCACAAATGGTAGTTTTGTGTGTTGGCTGCTCCACTGTCTCTGCCA
GCCTACAGGAGGAAAAGCAAGGCTTACAGAAGGATGTTTCCTTCAGGAGGAAGCAGCACTAAAAGCACTCTGAATC
AAGATGAGTGGGAAACCATCTCAATAAACACATTTTGGAT

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FIGURE 5370

GTCGTCACGCGTCCCGCGCCTCCTCGCGCCTGCGCCGTGGTTGGAAGGTCGTCCCTGTGACCGGCTTGGCGGTTG
GAGCGGCTGTCGCCATGTTGTCGGTAGCATCCCGCTCAGGCCCCGTTTCGCGCCCGTCTGTGCGGCCACGTCCCGCG
GGGTGGCGGGCGCGCTGCGGCCCTTGGTGAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGA
AGCGGCCCTTCTCAGCCGGGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCCTTTGGTCGCCTCCGTGGGCCTCA
ATGTCCTTGCTTCTGTTTGTATTCCACACAGACATCAAGGTGCCTGACTTCTCTGAATACCGCCGCCCTTGAAG
TTTTAGATAGTACGAAGTCTTCAAGAGAAAGCAGCGAGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAA
CTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCTTCTGCTGATG
TGTTGGCCCTGGCGAAAATCGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAG
GCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAGGAAGCTGCAGTTGAATTATCACAGTTGA
GGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTG
GCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGTTATTACTGCCCTTGCCATGGGTACACTATGATGCAT
CTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCCACGTATGAGTTCACCAAGTACGATATGG
TGATTGTTGGTTAAGAGACTTGGAAGTCAAGTCATAGGCTTCTTTCAGTCTTTATGTACCTCAGGAGACTTATTT
GAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAATTGATGATGATTTGCAAACATTAATGTG
AAATAAATTGAATTTAATGTTGAATACTTTCAGGCATTCACTTAATAAAGACACTGTTAAGCACTGTTATGCTCA
GTCATACACGCGAAAGGTACAATGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTG
TG

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FIGURE 5371

ACTGGAGTAACTACTGTGGGTGTCGCATATGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATGAGTGCT
TCTGCTGATGTGTTGGCCCTGGCGAGAGGCAAACCCCTGTTTGTGCGTCATAGAACCCAGAAGGAAATTGAGCAG
GAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCTAGATCGAGTAAAGAAACCTGAATGGGTT
ATCCTGATAGGTGTTTGCACCTCATCTTGGCTGTGTACCCATTGCAAATGCAGGAGATTTTGGTGGTTATTACTGC
CCTTGCCATGGGTCACACTATGATGCATCTGGCAGGATCAGATTGGGTCCTGCTCCTCTCAACCTTGAAGTCCCC
ACGTATGAGTTCACCAAGTGACGATATGGTGATTGTTGGTTAAGAGACTTGGACTCAAGTCATAGGCTTCTTTCAG
TCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACTTGAAGTTGATTTGAAATATGTAAGAAT
TGATGATGTATTTGCAAACATTAATGTGAAATAAATTG

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FIGURE 5372

GGGCCTGCGGGAGCGCGGCCTTGCGGTTCCAGGACTCTTCTCCGGGCGCCTCGTCTCCTTACGCCACCCGCAAC
CCAAGCCAGGGCCCCGGTGACAGCGGCGGGGTGGGCCAGGACCGGGGAGGGGGTGCCACAGCAGCGACCCCCGGCT
CCCCCTAAGGCCGGGCGCAGCTCGGAGCCAGGAGCTGGCCCGGCGCGTGGCTTCCCGGAAGGCCCGGCGCAGCCG
GAAGGTGGGACGGAGGGCGGGGCCAGCGCCGGGGCCGCCACCAAGGCCTGCGCGACCTCCGCGGGGGCTGGGGAG
CTGGGCGGGGAGCCCGGGGCCTGCCAGGCCCGGGCTGCAGCCGCGTCTGATCGCCGAGCGCGCCGCGTAGACCTC
CGCTCCCCCAGCCACCGTCTGGATGCTGTCTGTCATACAGGCGCTTGGAGCTGCTGAGCTTTCTGAAAAGGGGG
ACCCTTCTTAAACTCTAGGAAGTAGAGTGGCATTGTGATGGAAATACTCTTATGCTCATTGAAACTGTCCCTC
TGAACCTTCTCCCTCGAAGGCCCGCCACGATGACTATCATGGTGGAGGACATCATGAAGCTGCTGTGCTCCCTTTC
TGGGGAGAGGAAGATGAAGGCGGCTGTCAAGCACTCTGGGAAGGGTGCCCTGGTCACAGGGGCCATGGCCTTCGT
CGGGGGTTTGGTGGGCGGGCCACCGGGACTCGCCGTTGGGGGGGCTGTGCGGGGGCTGTTAGGTGCTGGATGAC
AAGTGGACAGTTTAAGCCGGTTCCTCAGATCCTAATGGAGCTGCCCCCTGCCGAGCAACAGAGGCTCTTTAACGA
AGCCGCAGCCATCATCAGGCACCTGGAGTGGACGGACGCGCTGCAGCTGACCGCGCTGGTCATGGGCAGCGAGGC
CCTGCAGCAGCAGCTGCTGGCCATGCTGGTGAAGTACGTCACCAAGGAGCTGCGGGCCGAGATCCAGTATGATGA
CTAGGCCGCACCTCCGGGGAGGTGGGGGGCCCCCTTAAATGACTCTGTGATTCTGAAGAGGTGGCTTGGGAGTTG
GGAGAAGCCCAGCGGATGCCCCCTGGGGAATCTCCACATCATCAGTGTATTACTAGTAATGTCCCCTGGAGAGG
CCACCGCTGTGCAGTGTATGTTCCAGAAATTACTGATGAAGCAGCATGTGTTGGTGGCATGTGCACTGGCCTGC
CATGACAGCCCTCTGACTGGCCCCCAGTGAAGAGTAAAGGCTGCCGCGCAGGCTTCGAGGCGTCTGCTGA
GTCCTCTCACCCGATGGGTCTGGGGAAGTGATCAGCTCAGCCGACGGTCTGACCACACTTCATCTCCCCCG
GGGCTTCTCATCTTGGGAGATGACTCCTCTTCAGAGCACCTGCTGCAGGACTGGATCCCCCCCCCTGCAGGTC
CTGGGGTCTCAGGGCCTTGGAGCAGCCCATGCTGGAATCATGTTTACCTCCTAGTGCAACCGTCCCCTACCCAGG
GACTGTGCAATGGCCCCACGGAGGGGACGGGCGGCCTGCTGAGTGAAGCCACAAATACCGAGTGGACTTGACCCC
GGCCCCCACTAGGCTGCACACCTAGACTCGCCCTGCCAGGGCCTCGCTCTTCCCATCTGAAAAGTCTGGTAGTT
CTTGAGGTTTACTTCTCAAATGAAATATTTTTAGTAAAAAGTACAGGTATATCTCGGAGATATTGTGGGTTCAGT
TCCAGACCACCTCGGTAAAGCCAACATCACAATAAAGCAAGGAAGCGCATTGTTTTAGTTTCCAGTGCATCTAA
GTCATGTTTACTGCATATTGCAGTCCACTAAATGTGCAATAGCATTATGTCTAACAAATGTACAAACCTTAATTT
AAAAATATTTACTGTTCAAATGCTGACACAGAAACGCAAAGTGAGCACATGCTGTTGAAAATGGTGCCAAATA
GACTTGCCTGATGCCAGGCTGCTACAAACCTTCAATTTAAAAAACAACAGTATTCACAAAGCATAGTAGAAT
GAGGTATGCCTGTATTGCTCTTTCTGAAGTGGTGTGATATAAACCATCTCTAAGAAATGTTTCTACCTAAAGAT
TTCCCCAGTACAGTCAGCTCTCCGTAAGTGTGGTCTCCACATTTAGATCCAACCAGCCTTGATAGGAAATATTT
GAAAAAAGAAATTGCATTGGTACTGAACACGTACAGACCTTTTTTCTTGCCATTATCCCTAAACAATATGGTG
TAGCATATTTACATAGCATTTATATTGATTGTTGTTATTATAAGAAATCTAGAGATGATTTAAATTATACAGGAAG
GTGTGCGTAGGTTACGTGCAACGCTATGCCATTGCCATCAGGGACTTGAGCATCCTCAGATGTGCGGTGTCTGA
GGGTTGAGGTTGCAGTCTGGAACCCATCCCCATGGATACTGAGGCATAGCTGTACTGTGTGTTTTCACTTTGC
TTTCAGAACTACGACTTGAATGTGATCGATTACAATAAATGTTTTCT

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FIGURE 5373

MTIMVEDIMKLLCSLSGERKMKA AVKHSGK GALVTGAMAFVGG LVGGPPGLAVGGAVGGLLGAWMTSGQFKPVPQ
ILMELPPAEQQRLFNEAAAIIRHLEWTD AVQLTALVMGSEALQQQLLAMLVNYVTKELRAEIQYDD

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FIGURE 5374

AGCAGCCGGCGCGGCCGCCAGCGCGGTGTAGGGGGCAGGCGCGGATCCCGCCACCGCCGCGCGCTCGGCCCCGCCG
ACTCCCGGCGCGCGGCCGCCACTGCCGTCGCCGCCGCCGCTGCCGGGACTGGAGCGCGCGTCCGCCGCGGAC
AAGACCCTGGCCTCAGGCCGGAGCAGCCCCATCATGCCGAGGGAGCGCAGGGAGCGGGATGCGAAGGAGCGGGAC
ACCATGAAGGAGGACGGCGGCGCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTG
CAGGATCCAGATGAAGAAATGGCCAAAATCGACAGGACGGCGAGGGACCAGTGTGGGAGCCAGCCTTGGGACAAT
AATGCAGTCTGTGCAGACCCCTGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAAC
TCAACGTGCAAGCCTCGGATTATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAG
GAAGTCTGGAAAATCATGTTAAACAAGGAAAAGACATACTTAAGGGATCAGCACTTTCTTGAGCAACACCCCTCTT
CTGCAGCCAAAATGCGAGCAATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAG
ACCTTTTACTTGGCACAAGATTTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAACTCTTTTACAG
CTTATTGGGATTTTCATCTTTATTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAAGTTTGGC
TATGTGACAGATGGAGCTTGTTCAGGAGATGAAATCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGG
CGTTTAAAGTCCCCTGACTATTGTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAA
GTGCTACTGCCGAGTATCCCCAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCCTGGATGTT
GACTGCCTTGAATTTCTTATGGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAA
AAGGTTTCAGGGTATCAGTGGTGCGACATAGAGAACTGTGTCAAGTGGATGGTTCCATTGGCCATGGTTATAAGG
GAGACGGGGAGCTCAAACTGAAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGA
GACAGCTTGGATTTGCTGGACAAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTC
CCCAGTGGGCTCCTCACCCGCCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGGAATGGCGTGAACACCCCAT
CCTTCTCCACCAAAGACAGTTGCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCGTTTGCT
TTTACAGATATCTGAATGGAAGAGTGTTCCTTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAA
GTGTTTTTTTATTGAATGCTTATAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGT
GCGTGCTCCCGATGCTGCTATGGAAGGTGCTACTTGACCTAAGGGACTCCCACAACAACAAAAGCTTGAAGCTGT
GGAGGGCCACGGTGGCGTGGCTCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGG
GCAAGCGTTGTGCAGAGCCCATAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGGTACAA
TGCCTTTGATGAAGTGTGTTTGTAAAGTGTGCTATATCTATCATTTTTTTAATAAAGATAATACTGTTTTTGAGAC
AAAAAAA

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FIGURE 5375

MPRERRERDAKERDTMKEDGGAEF SARRKRKANVTVFLQDPDEEMAKIDRTARDQCGSQPWDNNVAVCADPCSLI
PTPDKEDDDRVPNSTCKPRIIAPSRGSPLPVLSWANREEVWKIMLNKEKTYLRDQHFLEQHPLLQPKMRAILLD
WLMEVCEVYKLRHRETFYLAQDFFDRYMATQENVVKTLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDE
ILTMELMIMKALKWRLSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILA
ASALYHFSSSELMQKVSGYQWCDIENCVKWMVPFAMVIRETGSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARA
KKAMLSEQNRASPLPSGLLTPPQSGKKQSSGPEMA

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FIGURE 5376

GTGCTCACCCGGCCCGGTGCCACCCGGGTCCACAGGGATGCGAAGGAGCGGGACACCATGAAGGAGGACGGCGGC
GCGGAGTTCTCGGCTCGCTCCAGGAAGAGGAAGGCAAACGTGACCGTTTTTTTGCAGGATCCAGATGAAGAAATG
GCCAAAATCGACAGGACGGCGAGGGACCACTGTGGGAGCCAGCCTTGGGACAATAATGCAGTCTGTGCAGACCCC
TGCTCCCTGATCCCCACACCTGACAAAGAAGATGATGACCGGGTTTACCCAAACTCAACGTGCAAGCCTCGGATT
ATTGCACCATCCAGAGGCTCCCCGCTGCCTGTACTGAGCTGGGCAAATAGAGAGGAAGTCTGGAAAATCATGTTA
AACAAGGAAAAGACATACTTAAGGGATCAGCACTTCTTGAGCAACACCCTCTTCTGCAGCCAAAAATGCGAGCA
ATTCTTCTGGATTGGTTAATGGAGGTGTGTGAAGTCTATAAACTTCACAGGGAGACCTTTTACTTGGCACAAGAT
TTCTTTGACCGGTATATGGCGACACAAGAAAATGTTGTAAAAACTCTTTTACAGCTTATTGGGATTTTCATCTTTA
TTTATTGCAGCCAACTTGAGGAAATCTATCCTCCAAAGTTGCACCAGTTTGCCTATGTGACAGATGGAGCTTGT
TCAGGAGATGAAATTCTCACCATGGAATTAATGATTATGAAGGCCCTTAAGTGGCGTTTAAGTCCCCTGACTATT
GTGTCCTGGCTGAATGTATACATGCAGGTTGCATATCTAAATGACTTACATGAAGTGCTACTGCCGCAGTATCCC
CAGCAAATCTTTATACAGATTGCAGAGCTGTTGGATCTCTGTGTCTGGATGTTGACTGCCTTGAATTTCTTTAT
GGTATACTTGCTGCTTCGGCCTTGATCATTCTCGTCATCTGAATTGATGCAAAAGGTTTCAGGGTATCAGTGG
TGCACATAGAGAACTGTGTCAAGTGGATGGTTCCATTTGCCATGGTTATAAGGGAGACGGGGAGCTCAAACTG
AAGCACTTCAGGGGCGTCGCTGATGAAGATGCACACAACATACAGACCCACAGAGACAGCTTGGATTTGCTGGAC
AAAGCCCGAGCAAAGAAAGCCATGTTGTCTGAACAAAATAGGGCTTCTCCTCTCCCCAGTGGGCTCCTCACCCCG
CCACAGAGCGGTAAGAAGCAGAGCAGCGGGCCGAAATGGCGTGAACACCCCATCCTTCTCCACCAAAGACAGTT
GCGCGCCTGCTCCACGTTCTCTTCTGTCTGTTGCAGCGGAGGCGTGCCTTTGCTTTTACAGATATCTGAATGGAA
GAGTGTCTTCTCCACAACAGAAGTATTTCTGTGGATGGCATCAAACAGGGCAAAGTGTTTTTTATTGAATGCTTA
TAGGTTTTTTTTTAAATAAGTGGGTCAAGTACACCAGCCACCTCCAGACACCAGTGCCTGCTCCCGATGCTGCTAT
GGAAGGTGCTACTTGACCTAAGGGACTCCACACAACAAAAGCTTGAAGCTGTGGAGGGCCACGGTGGCGTGCC
TCTCCTCGCAGGTGTTCTGGGCTCCGTTGTACCAAGTGGAGCAGGTGGTTGCGGGCAAGCGTTGTGCAGAGCCCA
TAGCCAGCTGGGCAGGGGGCTGCCCTCTCCACATTATCAGTTGACAGTGTACAATGCCTTTGATGAAGTGTTTTG
TAAGTGCTGCTATATCTATCCATTTTTTAATAAAGATAATACTGTTTTTGAGACAAAAAAA

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FIGURE 5377

MKEDGGAEFSAERSRKRKANVTVFLLQDPDEEMAKIDRTARDQCGSQPWDNNAVCADPCSLIPTDKEDDDRVPNS
TCKPRIIAPSRGSPLEVLWANREEVWKIMLNKEKTYLRDQHFLEQHPLLOPKMRAILLDWLMEVCEVYKLHRET
FYLAQDFFDRYMATQENVVKTLLQLIGISSLFIAAKLEEIYPPKLHQFAYVTDGACSGDEILTMELMIMKALKWR
LSPLTIVSWLNVYMQVAYLNDLHEVLLPQYPQQIFIQIAELLDLCVLDVDCLEFPYGILAASALYHFSSSELMQK
VSGYQWCDIENCVKWMVPFAMVIRETGSSSKLKHFRGVADEDAHNIQTHRDSLDLLDKARAKKAMLSEQNRASPLP
SGLLTPPQSGKKQSSGPEMA

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FIGURE 5378

TATAAAAGCTGGGCCGGCGCGGGCCGGGCCATTTCGCGACCCGGAGGTGCGCGGGCGCGGGCGAGCAGGGTCTCCG
GGTGGGCGGGCGGCGACGCCCCGCGCAGGCTGGAGGCCGCCGAGGCTCGCCATGCCGGGAGAACTCTAACTCCCC
ATGGAGTCGGCCGACTTCTACGAGGCGGAGCCGCGGGCCCCGATGAGCAGCCACCTGCAGAGCCCCCGCACGCG
CCCAGCAGCGCCGCTTTCGGCTTTCGCCGGGCGCGGGCCCCGCGCAGCCTCCCGCCCCACCTGCCGCCCCGGAG
CCGCTGGGCGGCATCTGCGAGCAGGACGTCCATCGACATCAGCGCCTACATCGACCCGGCCGCTTCAACGAC
GAGTTCCTGGCCGACCTGTTCCAGCACAGCCGGCAGCAGGAGAAGGCCAAGGCGGCCGTGGGCCCCACGGGCGGC
GGCGGGCGGCGGCACTTTGACTACCGGGCGCGCCCGCGGGCCCCGGCGCGCCGTCATGCCCGGGGGAGCGCAC
GGGCCCCCGCCGGCTACGGCTGCGCGGCCGCGCGGTACCTGGACGGCAGGCTGGAGCCCCGTACGAGCGCGTC
GGGGCGCGGGCGCTGCGGCCGCTGGTGATCAAGCAGGAGCCCCGCGAGGAGGATGAAGCCAAGCAGCTGGCGCTG
GCCGGCCTCTTCCCTTACCAGCCGCCGCCGCCGCCGCCCTCGCACCCGCAACCCGCAACCCGCCCGCCGCGCAC
CTGGCCGCCCGCACCTGCAGTTCAGATCGCGCACTGCGGCCAGACCACCATGCACCTGCAGCCCGGTACCCCC
ACGCCCGCCGCCACGCCCGTGCCAGCCCGCACCCCGCGCCCGCGCTCGGTGCCGCCGGCCTGCCGGGCCCTGGC
AGCGCGCTCAAGGGGCTGGGCGCGCGCACCCCGACCTCCGCGCGAGTGGCGGCAGCGCGCGGGCAAGGCCAAG
AAGTCGGTGGACAAGAACAGCAACGAGTACCGGTGCGGCGCGAGCGCAACAACATCGCGGTGCGCAAGAGCCGC
GACAAGGCCAAGCAGCGCAACGTGGAGACGACAGAGAAGGTGCTGGAGCTGACCAGTGACAATGACCGCCTGCGC
AAGCGGGTGAACAGCTGAGCCGCAACTGGACACGTGCGGGGCATCTTCGCCAGCTGCCAGAGAGCTCCTTG
GTCAAGGCCATGGGCAACTGCGCGTGAGGCGCGCGGTGTGGGACCGCCCTGGGCCAGCCTCCGGCGGGGACCCA
GGGAGTGGTTTGGGGTCGCCGATCTCGAGGCTTGCCCGAGCCGTGCGAGCCAGGACTAGGAGATTCCGGTGCCCT
CCTGAAAGCCTGGCCTGCTCCGCGTGTCCCTCCCTTCCCTCTGCGCCGACTTGGTGCGTCTAAGATGAGGGGGC
CAGGCGGTGGCTTCTCCCTGCGAGGAGGGGAGAATTCTTGGGGCTGAGCTGGGAGCCCCGCAACTCTAGTATTTA
GGATAACCTTGTGCCTTGAAATGCAACTCACCGCTCCAATGCCCTACTGAGTAGGGGGAGCAATCGTGCCCTG
TCATTTTATTTGGAGGTTTCTGCTCCTTCCCGAGGCTACAGCAGACCCCATGAGAGAAGGAGGGGAGCAGGC
CCGTGGCAGGAGGAGGCTCAGGGAGCTGAGATCCCGACAAGCCCGCCAGCCCCAGCCGCTCCTCCACGCTGTC
CTTAGAAAGGGGTGAAACATAGGGACTTGGGGCTTGGAACCTAAGGTTGTTCCTTAGTTCTACATGAAGGTGG
AGGGTCTCTAGTTCCACGCTCTCCACCTCCCTCCGCACACACCCACCCAGCCTGCTATAGGCTGGGCTTCC
CCTTGGGGCGGAACCTACTGCGATGGGGGTACCAGGTGACAGTGGGAGCCCCACCCGAGTCACACCAGAAA
GCTAGGTGCTGGGTCAGCTCTGAGGATGTATACCCCTGGTGGGAGAGGGAGACCTAGAGATCTGGCTGTGGGGCG
GGCATGGGGGGTGAAGGGCCACTGGGACCCTCAGCCTTGTGTGACTGTATGCCTTCAGCATTGCCTAGGAACAC
GAAGCAGATCAGTCCATCCAGAGGGACCGGAGTTATGACAAGCTTTCCAAATATTTTGCTTTATCAGCCGATA
TCAACACTTGTATCTGGCCTCTGTGCCCCAGCAGTGCCCTGTGCAATGTGAATGTGCGCGTCTCTGCTAAACCAC
CATTTTATTTGGTTTTTTGTTTTGTTTTGTTTTGCTCGGATACTTGCCAAAATGAGACTCTCCGTCGGCAGCTGG
GGGAAGGGTCTGAGACTCCCTTTCTTTTGGTTTTGGGATTACTTTTGATCCTGGGGGACCAATGAGGTGAGGGG
GGTTCCTCTTTGCCCTCAGCTTTCCCGAGCCCTCCGGCCTGGGCTGCCACAAGGCTTGTCCCCCAGAGGCCCT
GGCTCCTGGTCGGGAAGGAGGTGGCCTCCCGCAACGCATCACTGGGGCTGGGAGCAGGGAAGG

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FIGURE 5379

TTGAGGGTCAATTCCAACTCCTTCACCTTTGGTTGTGTTAGTAGACAGGGCAACAAAGTGCTTCGCCACTGCAGA
AGGATCCTTGGCCGCCTGGAGAAACCACTCCTTCGCCGTCTCTGCATTTCGTGATGGTCTCCTGGGTAGTAAAGGT
CTTGGAGGCAATGATGAACAGGGAGGACTCGGGGTTTCAGCTGGGCCAGGGTTTTGGCAATGTGAGTTCCATCAAT
GTTGGAGACATACCAGACGCGGGGACCTCCTGAAGAGTATGGCTTAAGGGCTTCAGTCACCATGAGGGGTCCCAG
GTCGGAGCCGCCAATGCCAATGTTGATGACGTCCGTGATGGTCTTGCCCTGTGTACCCCTTCCAGTCACCGCTCCG
GACACGCTGGCAGAAAGACTTCATCTTGTCCAGAACCCTTGTGACCTCTGGCATCACATCCTTGCCGTCTACCAG
GATGGGTGTGTTTGACCGGTTCCGCAGAGCCACGTGCAGCACGGCTCGACCCTCGGTGATGTTGATCTTCTCACC
ATTGAACATCCGCTCCCGGGCGGCCTCCACGCCCCTGGACTTGGCCAAGTCCACCAGCATCCGCATCACGTCTC
CGTCACCAGGTTCTTGGAGTAATCCACCAGGATATGCCCATGGTTGGTGTGAGGGTCAAGCTGAAGTGGTTGAA
GCGGTCCTTGTGTCATCGAAGAGGCGGCGCAGGTTTCAGCTCGGAGCGGTGCTCGCGGTACCATTGCTGCAGCTT
CTGGAAGTGGGGTCCCGGTGAGAGCGGCCATGGCGGGACTAGAAGGTACACTGAGTGAGACGCGAGCCGAGGA
GGAAGGAGCGCCGCGCAGCGCGCAGCA

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FIGURE 5380

ATGACAAAGAAAAGAAAGAACAACAATCATGCCAAAAGGGCCGCGGCCACATGCAGCCTATTTGCTGCATGAAC
TGTGCCCGATGCATGCCCAAGTACAAAGCCGTTAAGAACTCCTGTATGTGAAACTACATTACTGTGTGAGTTGT
GCAATTCACAGCAAAGTAGTCAGGAATCGATCTCATGAAGCCCGCAAGGACCCAACACCCCCTCCCCGATTTAGA
CCTGCGGCTAGTATCCTGACACCAAAATCCAACCACTCGAAGACACAGACAAAATGTTCCATGCAAGATATTGGC
AAAGTGAATGAAATTACATATAAAGAATACTATAAGCTGATTAAGGAGAATTTACACCAGAAACGCAAGCCACCA
CCACCCCAGTGTCCTCAAGGCTGAAGGTGCAAGCTTGCCCTGGCCCTGGCCCTGGCATAGAAAGTGCACGATCT
GGTCATGTCATGCAGGTGAGGATACCTGTGTGCCAGGTCTCCAGCTCCCTGGTGACAAGACTGACAGACAAAAT
AATGGAACCTGGTACCTAGAAGAGGATGAGAAGGATCCCCGTGAACCCTAG

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FIGURE 5381

MTKKRKNNNHAKKGRGHMQPICCMNCARCM PKYKAVKKLLYVKLHYCVSCAIHSKVVRNRSHEARKDPTPPPRFR
PAASILTPKSNHKTQTKCSMQDIGKVNEITYKEYYKLIKENLHQKRKPPPPVSPRLKVQACPGFPGF GIESARS
GHVMQVRIPVCQVSSSLVTRLTDKTNGTWYLEEDEKDPREP

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FIGURE 5382

GGAAACCCAAGAGGAAATGACTGAGCCCGTCTGGGTCCCCGCCCGCTCGCGCTCCCCTGGCCACACCCTCCGCCT
GGACGCAGCAGCCACCGCCGCGTCCCTCTCTCCACGAGGCTGCCGGCTTAGGACCCCCAGCTCCGACATGTCGCC
CTCTGGTCGCCTGTGTCTTCTCACCATCGTTGGCCTGATTCTCCCCACCAGAGGACAGACGTTGAAAGATACCAC
GTCCAGTTCTTCAGCAGACTCAACTATCATGGACATTTCAGGTCCCGACACGAGCCCCAGATGCAGTCTACACAGA
ACTCCAGCCCACCTCTCCAACCCCAACCTGGCCTGCTGATGAAACACCACAACCCCAAGACCCAGACCCAGACCCAGCAACT
GGAAGGAACGGATGGGCCTCTAGTGACAGATCCAGAGACACACAAGAGCACCAAAGCAGCTCATCCCCTGATGA
CACCACGACGCTCTCTGAGAGACCATCCCCAAGCACAGACGTCCAGACAGACCCCCAGACCCCTCAAGCCATCTGG
TTTTCATGAGGATGACCCCTTCTTCTATGATGAACACACCCTCCGGAAACGGGGGCTGTTGGTCGCAGCTGTGCT
GTTTCATCACAGGCATCATCATCCTCACCAGTGGCAAGTGCAGGCAGCTGTCCCGGTTATGCCGGAATCGTTGCAG
GTGAGTCCATCAGAAACAGGAGCTGACAACCTGCTGGGCACCCGAAGACCAAGCCCCCTGCCAGCTCACCCTGCC
CAGCCTCCTGCATCCCCCTCGAAGAGCCTGGCCAGAGAGGGAAGACACAGATGATGAAGCTGGAGCCAGGGCTGCC
GGTCCGAGTCTCCTACCTCCCCCAACCCTGCCCCGCCCTGAAGGCTACCTGGCGCCTTGGGGGCTGTCCCTCAAG
TTATCTCCTCTGCTAAGACAAAAAGTAAAGCACTGTGGTCTTTGC

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[illegible]

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FIGURE 5384

GAGGCCCGGGAGCGGCAGTGGAAACCGACTCCCAGAACTCCGGACGTGTGCGGCGCAGTGAGTCGCAGCCATGTTC
CTGGTTAACTTCGTTCTTGAAGGGCGGCGGGCGGGCGGGCGGGGGAGGCGGGGGCCTGGGTGGGGGCCTGGGAAAT
GTGCTTGGAGGCCTGATCAGCGGGGCGGGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGGCGGTGGTGGAGGCGGC
GGTGGCGGTGGAAACGGCCATGCGCATCCTAGGCGGAGTCAATCAGCGCCATCAGCGAGGCGGGCTGCGCAGTACAAC
CCGGAGCCCCCGCCCCACGCACACATTACTCCAACATTGAGGCCAACGAGAGTGAGGAGGTCCGGCAGTTCCGG
AGACTCTTTGCCCAGCTGGCTGGAGATGACATGGAGGTGACGCCACAGAACTCATGAACATTCTCAATAAGGTT
GTGACACGACACCCCTGATCTGAAGACTGATGGTTTTGGCATTGACACATGTGCGAGCATGGTGGCCGTGATGGAT
AGCGACACCACAGGCAAGCTGGGCTTTGAGGAATTCAAGTACTTGTGGAACAACATCAAAAGGTGGCAGGCCATA
TACAAACAGTTCGACACTGACCGATCAGGGACCATTGTCAGTAGTGAACCTCCAGGTGCCTTTGAGGCAGCAGGG
TTCCACCTGAATGAGCATCTCTATAACATGATCATCCGACGCTACTCAGATGAAAGTGGGAACATGGATTTTGAC
AACTTCATCAGCTGCTTGGTCAGGCTGGACGCCATGTTCCGTGCCTTCAAATCTCTTGACAAAGATGGCACTGGA
CAAATCCAGGTGAACATCCAGGAGGTAAGGACCCCCATATTGGGGTATGGGTGCCTGGGAGGACCCCAACCCCTCA
GCCCTTCATACCAGCTCTGAGCTGCAGTCCCCCTTCCCTCTATTTTGCCAGCCGTCCCTGGGTGAGGGCAAAGGGG
CTGGTGCTCTTGGGGTTCCCTGTCTCACTCTCCACCCTCCTCTCCCCAGTGGCTGCAGCTGACTATGTATTCTT
GAACTGGAGCCCCAGACCCGCCCCCTCACTGCCTTGCTATAGGAGTCACCTGGAGCCTCGGTCTCTCCCAGGGCC
GATCCTGTCTGCAGTCACATCTTTGTGGGGCCTGCTGACCCACAAGCTTTTGTCTCTCAGTACTTGTTACCCAG
CTTCTCAACATCCAGGGCCCAATTTGCCCTGCCTGGAGTTCCCCCTGGCTCTAGGACACTCTAACAAGCTCTGTC
CACGGGTCTCCCCATTCCCACCAGGCCCTGCACACCCCACTCCGTAACTCTCCCCTGTACCTGTGCCAAGCCT
AGCACTTGTGATGCCCTCCATGCCCCGAGGGCCCTCTCTCAGTTCTGGGAGGATGACTCCAGTCCCTGCACGCCCT
GGCACACCCTTCACGGTTGCTACCCAGGCGGCCAAGCTCCAGACCGTGCCAGACCCAGGTGCCCCAGTGCCCTTG
TCTATATTCTGCTCCCAGCCTGCCAGGCCAGGAGGAAATAAACATGCCCCAGTTGCTGATCTCT

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FIGURE 5385

CTCTGACAAAAGCATCTCAGTGATTGACTTTTACTCGGGCGAGTGCAATTGCCAAGATGTTTGGCCATTTCAGAAAT
TATTACCAGCATGAAGTTCACCTATGACTGTCATCACTTGATCACAGTATCTGGAGACAGCTGCGTGTTTCATCTG
GCACCTGGGCCCCGGAGATCACCAACTGCATGAAGCAGCACITGCTGGAGATTGACCACCGGCAGCAGCAGCAGCA
CACAAATGACAAGAAGCGGAGTGGCCACCCAGGCAGGATACGTATGTGTCCACACCTAGTGAGATTCACTCCCT
GAGCCCTGGAGAGCAAACAGAGGATGATCTGGAGGAAGAGTGTGAGCCAGAAGAGATGCTGAAGACACCATCCAA
AGATAGCTTGGATCCAGATCCTCGTTGCCCTGCTAACCAACGGCAAGCTGCCACTGTGGGCAAAGCGGCTGCTAGG
GGACGATGATGTGGCAGATGGCTTGGCCTTCCACGCCAAGCGCAGCTACCAGCCCCACGGCCGCTGGGCAGAGCG
GGCCGGCCAAGAGCCCCCTCAAGACCATCCTGGATGCCCAGGACCTGGATTGCTACTTTACCCCCATGAAGCCCCGA
GAGTCTGGAGAACTCCATTCTGGATTCACTGGAGCCACAGAGCCTGGCCAGCCTGCTGAGTGAGTCAGAGAGTCC
CCAGGAAGCTGGCCGCGGGCACCCCTCCTTCTGCCCCAGCAGAAGGAATCATCTGAGGCCAGTGAGCTCATCCT
CTACTCTCTGGAGGCAGAAGTGACAGTCACAGGGACAGACAGCCAGTATTGCAGGAAGGAGGTGGAGGCCGGGCC
TGGAGACCAGCAGGGCGACTCCTACCTCAGGGTGTCTCCGACAGCCCCAAAGGACCAGAGCCCCGCCTGAGGACTC
GGGGGAGTCAGAGGCCGACCTGGAGTGCAGCTTCGACGCCATCCACTCCCCAGCTCCGCCTCCTGACCCTGCCCC
TCGGTTTGCCACGTCGCTGCCCCATTTCCCAGGATGCGCAGGTCCCCACAGAAGATGAGCTGTCCCTGCCCCAGGG
ACCCAGCGTCCCCAGCAGCTCCCTACCCAGACTCCGGAGCAGGAGAAGTTCTCCGCCACCACTTTGAGACACT
GACTGAGTCCCCCTGCAGAGCTCTGGGAGACGTGGAGGCCCTCTGAAGCTGAAGACCACTTCTTCAACCCACGCCT
GAGTATCTCCACGCAGTTCTCTCAAGCCTCCAGAAGGCATCCAGGTTACCCATACCTTCCCTCCCCGGGCAAC
CCAGTGCCTTGTGAAGTCTCCAGAGGTCAAGCTCATGGACCGAGGCGGAAGCCAGCCAGAGCAGGTACTGGCTA
CGCCTCCCCAGACAGGACCCACGTCTCGCTGCAGGGAAGGCTGAAGAGACCCCTGGAGGCCTGGCGCCCCACCAC
TCCCTGCCTTACGAGCCTGGCGTCTGTGTCCCTGCTTCTCCGTGCTGCCACAGACAGGAATCTCCCAACGCC
CACATCTGCACCCACCCAGGCCTGGCTCAGGGTGTCCATGCCCCCTCCACCTGTTCTTACATGGAGGCCACTGC
CAGCTCCCGTGCCAGGATATCACGCAGCATCTCCCTCGGTGACAGTGAGGGCCCTATCGTGGCCACACTGGCCCA
GCCCCCTCCGTAGGCCATCGTCCGTTGGGGAGCTGGCCTCCTTGGGCCAGGAGCTTCAGGCCATCACACCCGCGAC
AACACCCAGTTTGGACAGTGAGGGCCAAGAGCCTGCCCTGCGTTCCTGGGGCAACCACGAGGCCCGGGCCAACCT
GAGACTGACCCTGTCAAGTGCCTGTGATGGGCTCCTGCAGCCCCCGTGGATACCCAGCCTGGCGTACCCGTCCC
TGCAGTGAGCTTCCCAGCCCCTAGCCCTGTGGAAGAGAGCGCCCTGAGGCTCCACGGCTCTGCCTTTCGCCCCAAG
TCTCCCAGCTCCTGAGTCCCCTGGCCTTCTGCCCCACCCAGTAACCCCAAGCTTCCAGAGGCCCGGCCTGGCAT
CCCTGGCGGCACCTGCCCTCCTGAGAGCCACCTCCGGTGCACCTTGGTCTGTTACAGGGCAGCCCTGCCCGCTG
GAGTGAGCCCTGGGTGCCGTTGAAGCCCTGCCCCCATCTCCCTTGAGCTGAGCAGGGTGGGGAACATCTTGCA
CAGGCTGCAGACCACCTTCCAAGAAGCCCTCGACCTTTACCGTGTGTTGGTCTCCAGTGGCCAGGTGGACACCGG
GCAGCAGCAGGCACGGAAGTGAAGCTGCTTCCACCTTCTGTGGATCCACAGCCAGCTGGAGGCTGAATGCCTGGT
GGGGACTAGTGTGGCCCCAGCCAGGCTCTGCCAGCCAGGACCCCGTCCCCACCGACGCTGTACCCCTGGC
CAGCCAGACCTGCAGGCCCTGCTGGAACACTACTCGGAGCTGCTGGTGCAGGCCGTGCGGAGGAAGGCACGGGG
GCACTGAGGGCGCAGCCCCCTCCACCGCAGCCCTGCTGCTTCTGAGGACTTAGGTATTTTAAGCGAATAAACTGAC
AGCTTTG

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FIGURE 5386

MKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTD SQYCRKEV
EAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELS
LPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFP
PRATQCLVKSPEVKLMDRGGSQPRAGTGYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLP TDRN
LPTPTSAPTTPGLAQQGVHAPSTCSYMEATASSRARISRSISLGDSEGP IVATLAQPLRRPSSVGELASLGQELQAI
TTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVP AVSFPA PSPVEESALRLHGSA
FRPSLPAPESPGLPAHPSPNPQLPEARPGIPGGTASLLEPTSGALGLLQGS PARWSEP WVPVEALPPSPLELSRVG
NILHRLQTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGT SVAPAQALPSPGPPSPPTL
YPLASPD LQALLEHYSELLVQAVRRKARGH

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FIGURE 5387

AAGAAGACTACAATCTCCGGAGGGAAACCTGGGGCGTCTCGCGCAAACGTCCATAACTGAAAGTAGCTAAGGCAC
CCCAGCCGGAGGAAGTGAGCTCTCCTGGGGCGTGGTTGTTTCGTGATCCTTGCACTCTGTTACTTAGGGTCAAGGCT
TGGGTCTTGCCCCGAGACCCTTGGGACGACCCGGCCCCAGCGCAGCTATGAACCTGGAGCGAGTGTCGAATGAG
GAGAAATTGAACCTGTGCCGGAAGTACTACCTGGGGGGGTTTGCTTTCCCTGCCCTTTTCTCTGGTTGGTCAACATC
TTCTGGTTCTTCCGAGAGGCCTTCCTTGTCCTCAGCCTACACAGAACAGAGCCAAATCAAAGGCTATGTCTGGCGC
TCAGCTGTGGGCTTCCTCTTCTGGGTGATAGTGCTCACCTCCTGGATCACCATCTTCCAGATCTACCGGCCCCGC
TGGGGTGCCCTTGGGGACTACCTCTCCTTCACCATACCCCTGGGCACCCCTGACAACTTCTGCACATACTGGGG
CCCTGCTTATTCTCCAGGACAGGCTCCTTAAAGCAGAGGAGCCTGTCTGGGAGCCCCCTTCTCAAACCTCCTAAG
ACTTGTTTTTCATGTCCACGTTCTCTGCTGACATCCCCAATAAAGGACCCTAACTTTCCAAAAAAAAAAAAA

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FIGURE 5388

MAKARNQLDAVLQCLLEKSHMDRERLDEEAGKTPSDTHNKDCSIAATGKRPSARFPHQRRKKRREMDDGLAEGGP
QRSNTYVIKLFDRSVDLAQFSENTPLYPICRAWMRNSPSVRERECSPSSPLPPLPEDEEGSEVTNSKSRDVYKLP
PPTPPGPPGDACRSRIPSPLQPEMQGTPDDEPSEPEPSPSTLIYRNMQRWKRIQRWKEASHRNQLRYSESMKIL
REMYERQ

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FIGURE 5389

GGCACGAGGGGGGAGAGTAGACAGCAGAAACCAGCGGCGGGCTAAGCAGAGACTGTAGTAGCGGCGACAGCGAC
GACGGCAGCGATGGCTGGGGCGGGGCCAGCCCCGGGACTCCCGGGTGCAGGAGGACCCGTGGTCCCGGGTCCTGG
CGCTGGCATCCCGGGCAAAAGCGGCGAGGAACGCTTGAAGGAAATGGAGGCGGAGATGGCCCTGTTTTGAGCAGGA
AGTTCTGGGGGCTCCAGTACCTGGAATCCCAACTGCTGTGCCTGCGGTGCCCACTGTCCCCACGGTCCCCACAGT
AGAAGCGATGCAGGTCCCAGCGGCTCCTGTGATCCGCCCAATTATCGCGACCAACACATACCAGCAGGTCCAGCA
GACTCTGGAGGCCCGAGCAGCTGCTGCAGCCACAGTAGTTCCCTCCCATGGTGGGTGGCCCTCCTTTTGTAGGCC
TGTTGGCTTTGGCCCTGGTGATCGGAGTCACCTGGACAGCCAGAGGCTCGAGAAGCCATGTTCTGCGGGGGG
AGCTGTGGCCCCCAGAGGGCCCCCTATCCTGCGTCCAGCCTTCGTCCCCCACGTGCTACAGAGAGCAGATTCCGC
TCTCTCCTCTGCAGCAGCCGGCCCCCGCCCTATGGCCCTACGGCCCCCTCACAGGCCCTCGTGGGCCCCCTCT
GCCTGGGCCCCCTGGACCACCCATGATGCTGCCACCAATGGCTCGGGCTCCAGGGCCCCCGCTGGGCTCCATGGC
TGCACTGAGGCCCCCTCTGGAAGAGCCAGCAGCACCCCGAGAGCTGGGCCTAGGCCTGGGGTTGGGCCTGAAAGA
GAAGGAAGAGGCACTGGTGGCGGCGGCGGCTGGGCTGGAGGAGGCTAGCGCGGCTGTGGCCGTGGGGGAGGAGG
TGCCCCAGCTGGCCCTGCAGTCATTGGGCCCAGCCTGCCGCTGGCCCTGGCCATGCCATTGCCCGAGCCTGAGCC
CCTGCCCCCTCCCGTTGGAGGTCGTCCGCGGCTCCTGCCCCCGCTGCGCATTCTGAACTCCTGTCCCTGCGTCC
TCGGCCCCGGCCCCCTCGGCCAGAGCCACCCCGAGGCCTCATGGCTCTTGAGGTCCCAGAGCCCCCTGGGTGAAGA
CAAGAAGAAGGGGAAGCCAGAGAAATTGAAACGGTGCATTTCGCACAGCGGCAGGGAGCAGCTGGGAGGACCCAG
CCTGCTGGAGTGGGATGCAGATGACTTCCGGATCTTCTGTGGGGATCTGGGCAATGAGGTGAACGATGACATCTT
GGCACGCGCTTCAGCCGCTTCCCATCCTTCCTTAAGGCCAAGGTGATCCGTGACAAGCGCACAGGCAAGACCAA
GGGCTACGGCTTCGTACGCTTCAAGGACCCAGCGACTACGTGCGCGCCATGCGTGAGATGAATGGGAAGTATGT
GGGCTCGCGCCCCATCAAGCTTCGCAAGAGCATGTGGAAGGACCGGAATCTGGACGTGGTCCGCAAGAAGCAGAA
GGAAGAAGAAGCTGGGCCTGAGATAGGGTCTGTGGCCAGGCACCCGCTCCCACCTGGCCGGGCGCTGGCTCCT
CCCTCAGTTCTCTTTGAAAACCCCGAGCTGTCCACCCATCCCCTGCCCCAAAACCAAGTTTCAATAAATTTACGT
TCATTTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5390

MAGAGPAPGLPGAGGPVVP GPGAGIPGKS GEERLKEMEAEMALFEQEVLGAPVPGIPTAVPAVPTVPTVPTVEAM
QVPAAPVIRPI IATNTYQQVQQTLEARAAAAATVVPPMVGGPFFVGPVGFPGDRSHLDSPEAREAMFLRRAAVA
PQRAPILRPAFVPHVLQRADSALSSAAAAGPRPMALRPPHQALVGPPLEPGPPGPPMMLPFPMARAPGPPLGSMALR
PPLEPAAPRELGLGLGLGLKEKEEAVVAAAAGLEEASAAVAVGAGGAPAGPAVIGPSLPLALAMPLPEPEPLPL
PLEVVRGLLPPLRIPELLSLRPRPRPPRPEPPPGLMALEVPEPLGEDKKKGKPEKLRKRCIRTAAGSSWEDPSLLE
WDADDFRIFCGDLGNEVNDDILARAFSRFPSFLKAKVIRDKRTGKTKGYGFVSFKDPSDYVRAMREMNGKYVGSR
PIKLRKSMWKDRNLDVVRKKQKEKKKLGLR

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FIGURE 5391A

CGGTGTCGCCGCCGCGGCGCTGTCAATGGAGCTAGCGCAGGAAGCGCGGGAAGTGGGTTGCTGGGCGGTCTGAAGAG
ATGGGGGTGCCCCGTGGCGGCCCGGGCCCCGGAATCGACGCTGCGCAGGCTGTGTCTGGGCCAGGGGGCTGACATC
TGGGCCTACATCTTGCAGCATGTGCACAGTCAGAGGACTGTCAAGAAGATCCGGGGAAACCTACTCTGGTATGGC
CACCAGGACAGTCCACAGGTCCGTCGGAAGTTAGAGCTGGAAGCTGCTGTGACCCGCCTGCGGGCAGAAATCCAG
GAACTCGACCAGAGCCTGGAGCTGATGGAGCGAGACACTGAGGCTCAGGACACGGCCATGGAGCAGGCACGTGAG
CACACTCAAGACACCCAGCGTCGAGCTCTCCTCCTCCGGGCCAAAGCTGGGGCCATGCGAAGACAGCAGCATACG
CTCCGAGATCCCATGCGAGCGGCTGCAGAACTCAACTGAGGCGCCTGCGAGACATGGAGAGGAAAGCCAAAGTAGAT
GTGACCTTTGGATCCCTCACGTCGGCAGCTCTGGGCTGAGCCCGTGGTCTGCGTGATGTCCGAACAGCCTGC
ACCTCCGGGGCCAGTTCTGCGAAGCTCTGCTTCCCCAGGCCAAGAGGGGCAGCCTCCCAACCCCTCATGAT
GACCACTTTGGCACTTCGTACAGCAGTGGCTGAGCTCAGTGGAGACGCTGCTGACAAACCACCCCCAGGCCAC
GTCCTGGCTGCCTTGAGACACCTGGCTGCAGAGCGGGAGGCAGAGATTCCGTCCCTGTGAGTGGGGATGGGCTT
GGCGACACAGAGATATCCAGACCCCAGGCCCGGACCAGTCAGACTCCAGCCAGACCCTGCCGTCCATGGTTTCAT
CTCATCCAGGAGGGCTGGCGGACTGTGGGTGTGCTGGTCTCCAGCGGAGCACCTCCTGAAGGAGCGGCAAGTC
TTGACCCAGCGCCTCCAGGGCCTGGTGGAGGAGGTGGAGAGACGCGTCTGCGGATCCAGTGAGAGGCAGGTGCTG
ATACTGGGGCTTCGGCGCTGTTGCCTGTGGACGGAGCTCAAGGCCCTGCACGATCAGAGCCAGGAGCTGCAGGAT
GCAGCTGGGCATCGGCAGCTCCTGCTGAGGGAGCTACAGGCCAAACAGCAGCGGATCCTGCACTGGCGCCAGCTG
GTGGAGGAGACCCAGGAACAGGTCCGCCTGCTCATCAAGGGAACTCGGCCAGCAAGACCCGCCTGTGCCGGAGC
CCGGGGGAGGTGCTAGCTCTGGTCCAGCGAAAGGTGGTCCCTACATTTGAGGCAGTGGCACACAGAGCCGGGAG
CTGCTGCGCTGTCTGGAGGAGGAAGTCCGGCATTGCCCCACATTCTGTTGGGCACGCTGCTGCGGCACAGGCCG
GGAGAGTTGAAGCCCCGTGCCACGGTCTCCCATCCATCCACAGCTGCACCCCGCTCCCCAAGGGGCTCCAGC
TTCATAGCGCTGAGCCACAAGCTGGGGCTGCCTCCAGGGAAGGCCCTCGGAGCTGCTCCTGCCGGCGGCTGCCTCT
CTTCGCCAGGACCTTCTGCTCCTGCAGGACCAGCGGAGCCTCTGGTGTCTGGGATCTACTCCACATGAAGACCAGC
CTGCCGCCAGGCCTTCCACCCAGGAGCTGCTGCAGATCCAGGCATCCCAGGAAAACAGCAGAAAGAGAACCTG
GGGAGGCTCTGAAGAGGCTGGAGAAGCTACTGAAACAGGCACTGGAGCGAATCCCTGAGCTGCAGGGGATCGTG
GGGAGCTGGTGGGAGCAGCCAGGCCAGGCCGCCCTCTCTGAGGAGCTCTGCCAGGGCCTGTCCCTGCCCCAGTGG
CGGCTGCGCTGGTTCAGGCCAGGGGCCCTGCAGAAGCTGTGCAGCTGAAGAGAGGGTTCAAACGGAAGCCGA
GAACTTGACACTGTTCAACCCCAACACCTCACCTCCCCAGGACATTTGGAAGAAAGCAGCGCCAGGATTCTCGG
CAGTCGTCCCCACCCGCACCTGCAGTCCCTCATGTGCTGTTCTGCTGCCCCACTCAGCTCCTGGACCCTGTCTCT
TTCATCCCGCTAAAGCACCCCTTAAACCCCTTTCATCACTTTTCATTCTCAGCAAAAAGTAATTGAGCACCTCCTC
TAGGCGCTGGGGAGTCCACACTGAACAAAAGAAACAGAAAACCCTGTCTTCCAGCAGTTGAGTTCTAGGGCAGGG
AGACAGAGTTTACAAGATAAGGAAAATATATATGTAGTATGCTGCAAGTTAACTGCTGTGTGGGAAATCCAGCAG
GGGGTGGGATGTGTGATTTGAATTGAGGGCCACACTGCCAGGTGCTGCTCCGTCAAGGGGTGAGCAGGAGCAAC
AGGGGTGGCTGAGTAAGGGCTTGCAGCTGGAGGCAACAGCACATGCAAGGCCCTGAGCCAGGATGTGCTGCAAT
AAGGGCCACTGAGGGGGACAGTGTAGGTGGGGGTGAGGAATGTATTAAAGATGAGATTGCCCTTCTAGTTTGTA
TAGTTTCTTTTTTTTACATGTAAATCAGCCATTTGGAAATTTATCCTAGCACATGGATCCAATTTTGTCTTATTTTA
CATATATCCTAGTAGCACTTACTGAAATTCCCAGTCAGAGTGGCAGTTGCCTCTGAGGGAAGGTGGGTGGCAGGG
ATCAACTGAGGAGGAGACACAGAAATGTCTAGCTGATGGGAATGTGCTGTGTCAAGAGCAGCGGCGGTGACGCA
GGTGTAGAGATTTGTGAGAGCTCATGTAGTTGTAGTCTTAAGGCCCTGTGCATTTCACTGCGTGGGTACTCAATT
TATAAAGCAAAGCCCTTACACTTTTGGAGATGCCACCTTTTTATGCACTAAATTTCCATGTTTAAATTGGGTATAT
CTGGCTTCTCTCCAGACCTGCTTTGTATTTAACTCTCCATGTGTCACTTCTACAGTAGCTTAATAGAAAGGCTTG
TGACACATTTGTCATATCTGTTCTTGTCTTTTGTCTTTTTTTTTTTTTTTTTTTTGTAGATGCAGTCTCATTCTGT
TGCCCAAGTTGGAGTGCAGTGGCATGATCTCAGCTCACTGCAACCTCCGCTCCAGGTTCAAGCCATTCTCATG
CCTCAGCTTCCCCAGTAGCTAGGATTACAGGTACGCACCACCACGCCAGCTCATTTTTGTACTTTTAGTAGGGA
CGGGGTTTTCATCATGTTGGCCAGACTGGTCTCGAACTCCTGACCTCAAGTGATCTGCCTGCCTCGGCCTCCAAA
GTGCTGGGATTACAGGCATGAGCCACCGCGCCTGACCACATTGCCATATCTGAAATGGCTGGATTCTCTTAGGTG
CTTTTCTTTTTTCTTTCTTTCTTTTCTTTTTTTTGGAGACAGAATCTGGCTGTTTCCAGGCTGAAGTGCAGTGGCATG
AACTCAGCTCACTGCAACCTCTGCCTCCTGGATTCAAACAATTTCTCATGTCTCAGCCTCCTGAATAGCTGGGATT
ACAGGCACCCACCACCATATCTGGCTAATATTTGTATTTTTGTAGAGTCGGAGCTTTACCATGTTGGTCAGGCT

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FIGURE 5391B

GCTCTCCAACCTCCTGGCCTCAAGTGATTCTATCGCCTCTGCCTCCCAAATCTTCACCTGCTGGGATTAGTTTCCC
CTGTCTCAGTAAATTTTTTTTTCCCAAATAAGTGAACATTAGATTTAATTTGGCTGGCCCCAGAAGAAAAACATG
CACAGATGGTAGTTTTACTGGTGTTGCAGTAAGTTTTCAAATTTGGAAGTTTGGCAGCTTTATGATCTTGAACCT
TGCTGTCCATCTCTCACACAACCTCCTCTCTTGGCCTCCAGAGTCCCTTTACTCTCCCAGCTTTCCTCCTGCCCCCT
GGCTGCTGTTTCCCAGCCTTTCCACATTGGCTTTCCCATGTAGTCCTTAGTGTGTCTGCTCCTCCTCTCTCTCCT
CATCACAGTTCCCAGCCCCCACCTTCAACTGAACCTCAACAAAATCTTCAACTTCATACAGTAGTCACATTGTTAG
TAATAACACTGGCATTTTTTATTTTGATAAAATAGACCGTTTTAAATTTTTGAGATTCTACCTTATATTTTTTGAAT
TATATACTAAAGCAAATAAGTAGTGATGTAATGTCATTGGGGACCAAGATTTTTAGTGTAATGAAAAAAGATAA
CAAATATAAACTCAAGTAAACACCCTGTAGTCTTTCACATGAATTGGAAATATCAGAATAAAGTCATGATTTTTCT
CTTTCT

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FIGURE 5392

MELAQEARELG CWAVEEMGVFVAARAPESTLRRRLCLGQGADIWAYILOHVHSQRTVKKIRGNLLWYGHQDSPQVR
RKLELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDTQRRALLLRAQAGAMRRQHTLRDPMQRL
QNQLRRLQDMERKAKVDVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRGS LPTPHDDHFGTSYQ
QWLSSVETLLTNHPPGHVLAALAEHLAAERAEIRSLCSGDGLGDTEISRPAQPDQSDSSQTLPSMVHLIQEGWRT
VGVLVSRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVLIILGLRRCCLWTELKALHDQSQELQDAAGHRQLL
LRELQAKQQRILHWRQVVEETQEQRLLIKGNSASKTRLCRSPGEVLALVQRKVVP TFEAVAPQSRELLRCLEEE
VRHLPHILLGTLLRHRP GELKPLPTVLP SIHQ LHPASPRGSSFIALSHKLG LPPGKASELLLPAAASLRQDLLLL
QDQ RSLWCWDL LHMKTS LPPGLPTQELLQIQASQEKQ QKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPG
QAALSEELCQGLSLPQWRLRWVQAQ GALQKLCS

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FIGURE 5393

GGCACGAGGGGCCCTGGCCGTGGCGAAAGAGCCGGCGGAGCCGGAGACCCGCTCCCGGAGACGCCGCCCTCGCGATC
CCCGCGCGGGCGGGACCGGGCGGCCGGCATCATGACCCTGTTTCACTTCGGGAAGTCTTCGCTCTTGCCCTACTT
CCCCTACTTTCATCACCTACAAGTGCAGCGGCCCTGTCCGAGTACAACGCCTTCTGGAAATGCGTCCAGGCTGGAGT
CACCTACCTCTTTGTCCAACCTCTGCAAGATGCTGTTCTTGGCCACTTTCTTTCCACCTGGGAAGGCGGCATCTA
TGACTTCATTGGGGAGTTTCATGAAGGCCAGCGTGGATGTGGCAGACCTGATAGGTCTAAACCTTGTCATGTCCCG
GAATGCCCGCAAGGGAGAGTACAAGATCATGGTTGCTGCCCTGGGCTGGGCCACTGCTGAGCTTATTATGTCCCG
CTGCATTCCCCCTATGGGTTCGGAGCCCCGGGGCATTGAGTTTGACTGGAAGTACATCCAGATGAGCATAGACTCCAA
CATCAGTCTGGTCCATTACATCGTCGCGTCTGCTCAGGTCTGGATGATAACACGCTATGATCTGTACCACACCTT
CCGGCCAGCTGTCCTCCTGCTGATGTTCCCTCAGTGTCTACAAGGCCTTTGTTATGGAGACCTTCGTCCACCTCTG
CTCGCTGGGCAGTTGGGCAGCTCTACTGGCCCCAGCAGTGGTAACGGGGCTGCTGGCCCTCAGCACTTTGGCCCT
GTATGTCGCCGTTGTCAATGTGCACTCCTTAGGCTTGGTGTCTCAGACATTGATGTACCTTTTCCCTGCCTCGCTC
CAGGTTTTAGTGAAGTAAACAGTATTTGGAAAGTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5394

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKAS
VDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVAS
AQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVVNVHS

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FIGURE 5395

ATGGCCGTTGCCAGCTTGCCTTCCGTGCTAGTCGCATCTCAGCAGGATCCCCTCCCAGATTGCGTCTGGTGCTT
GATGGTCGAGGCCATCTCCTGGGCGCGCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTG
GTCGTACGCTGTGAAGGCATCAACATTTCTGGCAATTTCTACAGAAACAAGTGCCCCTACCACTTCCGGGCCCCC
AGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAAGCGAGGCCAGGCCGCTCTGGACCGT
CTCAAGGTGTTTGACGGCATCCACCGCCCTACGACAAGGTGAGCTATGCCAAACCCACAGGCAGCGGCCTTAC
CTGTGGCGTCCATGA

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FIGURE 5396A

AAAAAATAGCCAGGCGTGGTGGCACATGCCTATAATCCCAGCTACTCAGGTGGCTGAGGCAGGAGAATCGCTTGA
ACCCAGGAGGCAGAGGCTGCAGTGAGCTGAGGTCACACCACTGCACTCCAGCCTGGGTGACAGAGTGAGACTCTG
TCTCAAAAAACAAACAAACAAGCAAAAAATCAAAAAACATTGTTTTAGATCTTATTTTCTATTGACCTAAGAGTTA
TTAATATAGACTTTTGAATTTTCAGGTAGATTTTACTTGTGTTTTCTTTTAATTTTATTATTAATTTCCAGTTTT
AGTAGAAAAATGCTATATAATTTCAACCTTTTTTTTTTGCTAACTCCTAGTTTTGTGTCTAGATTTTCAGCTTTTT
AATAGAGACCACCTTATCATAATTGAAAACCTCATCTGTTTTCTCTCTCATAACAACCTCATTTCAGCTTGTAGAT
TTTCTCTGGCTGTTCTGTTGCTGGCTTGCCATCCTCTGGCCTACATGTAACGTGACTTCTGTTAGCAAGTCCT
TCACATTCAGATGACTGCAACAGTTGAACATGCACATTACTTTTTTCCACATTTCTGAGTTACAGGCATATCCTG
TCTTTTTGTGCCATGAATTTTATAAGAACTTCAGTAAGATATAGACGTGTTTTCTGTCCGAAAAATCACTGATA
CACATTTCTTAAAAAACAGGAATGGCCTTGACTATGAGGGAATGGAAGGAGAAAACTGAGCAATGGGAGGAA
AGAACAAAACCAAGTTGAACATTTGTCAAATGAATGAGTAATAGAATAAGTTGAAGGGAAGATTGAGTAGGTAGAA
CTCCTCAATACCTTTGCTATGGTGTAGAGACAAAGAAAAAGTTACCCATAGCTATGTGAAGGGGCAATGGGCAG
TGCACTGCATAGGTAAAGGCATAAGCAGTGGCAGATGCATAGGAATATACAGCCACCTATTTCCATTCTTGTATT
TAGCTGGGCTGCCCTGGATGAATAAAGAGAATATTTAATCACTGTAGTAAGGCATGAGAGACTAGAGGCAGAGAG
ATACATTTAGAACAAGTATGTAGCTATGGGAATTAATGAGTAAACCTATTATATGCTTAGCATTATTACTTA
ATGTAGCGTTAACTAGGGATTGTTTCTGTCTTGAGGAGGTTTATAGGTAAGAATAGGCAGTATAACAATTGGAG
AAGTTAATAAATATATAATTTTAAATTGAGAGCTATTATAAAGGCAAGGAATAGAGAATAGCAACATGGATTTA
GGTACTATCAATAGGGTCAACCTTAAAGGAAATGACTTTTAACTAAGATCTCAAGATGAAAGGAGCCAGCCATG
CAAAGAGCCCAATCAGGAGATTTGTGGGAGATAGAACAGACTGTGAAGAGTCCTAAGAGATGGAAGTAAGTTAGG
ACATGTGAGGTCTGCAAGGAGGCCTCTCCAGGGAGCAGTAAAGGGGACACTGGTTTGAGATCATATGATGTAGGT
AAGCAGAGGCCTTCTTAACCACAGTGAGCTTGACTGGATTCTGAGAATGAAGAAAGATGAAAAAATTTAAGTAT
AGATTCTCGACCTCTCATCTTCATCAGAATTATCATGTAGAGAATATTAAATATCCTTCCAGGACTGCAGAGTCT
GATCCAGGTGGTTTGGGTGGTGTCTAAACCTCAGTGTTAGTAACAAGCTATGTGGTGATTCTGATCCACACCTCA
ATATGAGAACCCTGACTTAAATGTTTACTTCATCACCATCTTGCTATTTTGTATGAACCTCTCATTTTCTCTG
ATGTTCCCTTTGGCTTTTTTTTTTCTTTCCAAATTGTATAACAATATTTTAGAGTTTTGGTTAAGGATTACTTTTG
TTGCTTTTTATTTCTACATTAGAAATGTTGCTTCTTTTAGTAAAGAAAAACAGCATGTGTTGCTTTCTTGTGTTTT
ATTTTAGATTGGAGACCAAGTATGAGACCAAGAAGTTATCTTTAGAAAATGACATTTATGAAATAAATTTATCC
CAGTGGAAAGATAAATGGAAGAATTGAAAACCATGGCCTTAAGGGTCTCATTTTAAAAAATGATTGGGAATCCACA
GGAAAAATGGAAGGACAGGAGACCTCAAGAAGGATACCTCAGTAGTGTGAAATGCCATCTGAAAAGGTGTC
TCTTACCAGAAACGCACATCTGTACTCCACATCAGAGACTTCATTTTGTGATAAACCCCTATGAATGTAAGGAA
TGTGGGAAGGCGTTAGAGTGCGCCAACAGCTTACTTTTCATCACAGAATTCATACTGGTGAAAACCGTATGAA
TGTAAGGAATGTGGGATGGCCTTCAGACAGACTGCACACCTTACTCGACATCAGAGACTTCATTCTGGTGAAAAA
CTCTATGAATGTAAGGAATGTGGGGAAGCTTTTCATATGTGGTGAGATCTTAGAGTACATCAGAAAATGCATATT
GGTGAGAAGCCCTATGAATGTAAAGAATGTGGGAAGGCTTTTAGGGTACGAGGACAACCTTACTCTGCATCAGAGG
ATTCATACTGGTGAGAAAACCCCTATGTGTGTAAAGAGTGTGGAAAAGCCTTTAGACAGTACGCACACCTGACTCGG
CATCAGAAGCTTAATAGTGCTGACAGGCTCTATGAATGCAAAGAATGTGGGAAGGCCTTTTTGTGTGGCTCTGGT
CTTAGAGTACATCACAACTTCATACTGGTGAGAAAACCCCTATGAATGTAAGGAATGCGGGAAGGCCTTTAGAGTG
CGACAACAACCTAACCTCCATCAGAGAATTCATACTGGTGAGAAAACCCCTATGAATGTAAGGAATGTGGAAAGACC
TTAGCCGTGGTTATCATCTTATTCTCCATCACAGAATTCATACTGGTGAAAAACCTTACGAATGTAAGGAATGC
TGGAAAGCCTTTAGTCGCTACTCACAACCTTATTTACATCAGAGTATTCATATTGGTGTAAAGCCCTATGACTGT
AAGGAATGCGGGAAGGCCTTCAGACTACTTTCACACTCACACAGCATCAGAGTATTCATATTGGTGAGAAACCT
TATAAATGTAAGGAATGTGGCAAGGCCTTTAGATTGCGCCAAAAAATCTACTTACATCAGAGCATTCTACTGGC
GAAAAACCCCTTTAGTGTAAGGAATGTAGGAAGGCCTTTAGACTTAATTCATCCCTTATTCAACATCTGAGAATT
CATTCTGGTGAGAAACCCCTATGAATGTAAGGAATGTAAGAAGGCCTTTAGGCAACATTACACCTTACTCATCAT
CTGAAAATTCATAATGTAAAAATCTAAGAAAGTCTTTTCAACTTCTGTGTTATAGAACATTCTATGAATGTAGTA
ATTAATCTATTTTGTCTCCATACATGCAACTGCGTTGGCATTAGAGGTTTTATACCATTAAAAGAGTGTGACAATG
TATTGTAGTCCATCATCACTCAAACCTGAAACCTCAGCATATTTGTTCTAAAAACTAATCCTGTTATAAGAATGA
AAAAGACATTTACCGTCATCCCTATCCCATCACTTTGTGTCTACTGGACAAGACGCTTAACTGCTCTGTGCTAT

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FIGURE 5396B

AATTTTTTAATTTATGACATGGTCATATAAGAGTGCAGCAGTTTGACACACTTTCAATCAAGAGGTGGAATCTAC
ATCCCTCTGTTGTATACAGGAATCTACATCCCTCTGTGACTGCTTCGCCCAGTAGAATATGGTAGACGTACTGCT
GTGCTGGTTTTCTTGACTCAGACTTTACTGGTAGGGTTACTTCATCTCATGAAATGACAGAAGTGTCTTGTTACAA
AGTCTGGCTACTTTTGCTGAAGAGACCACATGAAGAGGCCCTGAAACTACGTAGAGAGGGAGAGGCACCTGCTGAA
CCCTGTCTTCTTGACATCCACCAAGATACCAGACATTTGAGTGAAATTTTGATCCACCAGACCAGCCACCAGCT
AAATGCCAGTGAGCGACTTGGTAACCTGAACTGATGCCATGTAGAATGGAAGAATTGACCAGCTGAGCCCCCTGGC
CCAAATTTCTGACCCACAAAAACATGAGATATAATAAAATGGTTGTTGTTTTAAGCCACTAAACTTTCTTTTATT
ATCATACTAAATATTTATTTTACATAATTCATACTAAAGGCTGTGGGCATAATGAGTATAGAAATGCCTTCCAC
CAACATTTAATCTTCATTGAACTTGAGATATCTTATTCTCGTTAAAAATATTGAAAGTAAGGAATTCCTTTCCAGT
TTGTTTCATTAAAAAACAGATACCCTAGACCAGGTGAGGTGGCCCATGCCGTGTAATCCAGCACTTTGGGAGGCCA
AGTAAGGACGATTGCTTGAGGCCAGAAGTTCGAGACCAGCCTGGGCAACATGGTGAGACCCTGTCTCTACCAAAA
AACTTTAAAAATTAGCTGGGCATAATGGTGCATGCCGTGTAGTCTAGCTACTCGAGGCTGAGGTGGGAGGATCAT
TTGAACCCAAGAGTTGAGGCTTCAGTGAGCTGTGATTGTACCACTGCACTCCAGCTTGAGTGACTGCAAGACCCT
GTCTCAAAAAAAAAAAAAAACTACAATCAGTATTCTCTGGCCCCAGTCAATATTAAAAATTGACAAAAGGATAACA
TGAAACTTTGGAAATTAAGAGTCACCTGTATTATGAAGCCCCATTAATTTTTTAACTACTTCATTGTTTTTAA
AAATGCTAAATTGTCAATTTAGCATTTTGAGGCAATCCCTCAAATTGGCTCCTGTGTCTTTTATCATGACCAC
TCCAACCTTTGAGCTTTTTTTTTTCTGAACCAATGCATTGATTAGTTATGGAGCATACTAGAGCATTATTAAC
AAATAAAGGAAAAGAATGGAATATTTACCTTGCTATCCTTTACAACTATATTTCAAGACAACCAAAAGTTGGT
GAAGGAAAGTTGTTGATTAGAGAATTCCTCACTGGTTAAAGGTCAAAGGAGGCCAGGCGCGGTGGCTCAAGCCTG
TAATCCCAGCACTTTGGGAGGCCGAGGCAGGTGGATCGTGAGGTGAGGAGATCAAGACCATCCTGGCTAACACGG
TGAAACCCCATCTCTACTAAAAATACAAAAATTCGCCGGGCGTGGTGGCAGGCGCCTGTAGTCCCAGCTACTCA
GGAGGCTGAGGCAGGAGAATGGCTTGAACCCGGGAGGCGGAGCTTGCACTGAGCCGAGATCGCGCCACTGCACTC
CAGCCTGGGTGACAGACCAGACTCTGTCTCAAACAAAAACAAAAACAAAAACAAAGATCAAATGAATG
ATAGAATTTGAAACTACGCTCTTTAATTTTACAAATCATGGATTTTCGTGGTGATAGCAATGGATGCGAAGAC
CATTAGGTGAAAAATGGATAGGAAGCTTATAATGCATGGAGCAGAATGACAGGACACTAATCTATATTAACATCT
CTAAATGAGATCAGCCAGATGAATTTGATGTGATGAAATGGATACACACAGTGGACACCTGTGAAGTTTTCTTGG
CTCCCCAAAAGTGAAGTACAAGTTAGTCTCCAAACCTAATTACCAGTTTACAGGAAACATGGGGAATAAAG
AACAAATTAACAACACAAAGAAGCAAACAACCAATGCACAATTTGGGAAATCTGCAGAAGTAATGGCCTAGTT
TTTTAACCAATACATGTC

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FIGURE 5397

MLLLLVKENS MCLLS CFILDL ETKYETKKLSLENDIYEINLSQWKIMERIENHGLKGLILKNDWESTGKIEGQER
PQEGYFSSVKMPSEKVSSYQKRTSVTPHQRLHFVDKPYECKECKGKA FRVRQQLTFHHRIHTGEKPYECKECKGMAF
RQTAHLTRHQRLHSGEKLYECKECKGEAFICGADLRVHQMHIGEKPYECKECKGKA FRVRGQLTLHQRIHTGEKPY
VCKECKGA FRQY AHLTRHQKLNSADRLYECKECKGAFLCGSLRVHHLHTGEKPYECKECKGKA FRVRQQLTLHQ
RIHTGEKPYECKECKGKTFSRGYHLILHHRIHTGEKPYECKECKWKA FSRYSQLISHQSIHIGVKPYDCKECKGA FR
LLSQLTQHQS IHIGEKPYKCKECKGA FR LRQKLTLHQSIHTGEKPFECKECKRKA FR LNSSLIQHLRIHSGEKPYE
CKECKKA FR QHSHLTHHLKIHN VKI

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FIGURE 5398

TGGATGGTGAACCCCTGATTCTGAAGTCGGTGTCTGCTGTGTTTCATGGCAGGATTCGGTTAGGAGGAACAGCACAG
CATGCTGGGCTCTGGATTTAAAGCTGAGCACTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTGAACCTATT
GGAGGAAAAAAAAAAAAACAGAACTGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAA
GATGAACGAGCTCGGATCCGTGTGGAGCACATTATCCGGGAAGACTACTTCGTGGAGGCCATGGAGATCCTGGAG
CTGTACTGTGATCTGCTGCTGGCTCGGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAA
TCTGTGTCTACATTGATCTGGGCTGCTCCTCGACTCCAGTCAGAAAGTGGCTGAGTTGAAAATAGTTGCTGATCAG
CTCTGTGCCAAGTATAGCAAGTAATATGGCAAGCTATGTAGGACCAACCAGATTGGAACGTGAATGACAGTTTA
AGGCCTCGCTTAGTTGTAAGTCTGAGGAGTCTCTGTGGCCTTTTGCTCTGAGTGCTGTTTCCCTTGTAC
CAGAGGGCAGCACCATGGAAATTCGTGTTTTCTGTAGCATATTGT

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FIGURE 5399

TGCCAGTCCATCTGACATCAAAGCCAGTGTCTCTAATGGTGACACCACCTCCTCTGCAGCAGGAGGCAGAGCTG
TGGGATGAATGAGGTTTCGCCAGGTCTCCCTTACCTATCCTGGGTCCCCAGCTCCTTCTCACTCTCTTCCCTTGCA
GCCTCGAAGCGGAGGATCCCTGTGTCTCCAGCCGGGCATGGCGACCCCCACCAGCTTTTCGATGACACAAGTTTCAG
CCCAGAGCCGGGGCTATGGGGCCCAGCGGGCACCTGGTGGCCTGAGTTATCCTGCAGCCTCTCCCACGCCCCATG
CAGCCTTCCTGGCTGACCCGGTGTCCAACATGGCCATGGCCTATGGGAGCAGCCTGGCCGCGCAGGGCAAGGAGC
TGGTGGATAAGAACATCGACCGCTTCATCCCCATCACCAGCTCAAGTATTACTTTGCTGTGGACACCATGTATG
TGGGCAGAAAGCTGGGCCTGCTGTTCTTCCCTACCTACACCAGGACTGGGAAGTGCAGTACCAACAGGACACCC
CGGTGGCCCCCGCTTTGACGTCAATGCCCCGGACCTCTACATTCCAGCAATGGCTTTTCATCACTACGTTTTTG
TGGCTGGTCTTGCGCTGGGGACCCAGGATAGGTTCTCCCCAGACCTCCTGGGGCTGCAAGCGAGCTCAGCCCTGG
CCTGGCTGACCCCTGGAGGTGCTGGCCATCCTGCTCAGCCTCTATCTGGTCACTGTCAACACCGACCTCACCACCA
TCGACCTGGTGGCCTTCTTGGGCTACAAATATGTCGGGATGATTGGCGGGGTCTCATGGGCCTGCTCTTCGGGA
AGATTGGCTACTACCTGGTGTGCTGGGCTGGTGTGCTAGCCATCTTTGTGTTTCATGATCCGGACGCTGCGGCTGA
AGATCTTGGCAGACGCAGCAGCTGAGGGGGTCCCGGTGCGTGGGGCCCGGAACCAGCTGCGCATGTACCTGACCA
TGGCGGTGGCGGCGGCGCAGCCTATGCTCATGTACTGGCTCACCTTCCACCTGGTGGGTCAGCGCGCCCGCTGA
ACCTCCCGCTGCTGCTGCTGCTGCTGGGGGCCACTGTGGCCGCCGAACCTCATCTCCTGCCTGCAGGCCCAAGGT
CCACCTGTCTGGCCACAGGCACCGCCTCCATCCCATGTCCCGCCAGCCCCGCCCCCAACCAAGGTGCTGAGA
GATCTCCAGCTGCACAGGCCACCGCCCCAGGGCGTGGCCGCTGTTACAGAAACAATAAACCTGATGGGCATGG

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FIGURE 5400

MRFARSPLPILGPQLLLTLFPCSLEAEDPCVPAGHGDPHQLFDDTSSAQSRGYGAQRAPGGLSYPAAASPTPHAAF
LADPVSNMAMAYGSSSLAAQGKELVDKNIDRFIPITKLKYYFAVD TMYVGRKLGLLFFPYLHQDWEVQYQQDTPVA
PRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFSPDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDL
VAFLGYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLKILADAAAEGVPVRGARNQLRMYLTMAV
AAQPMMLMYWLTFLVR

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FIGURE 5401

CGGGGCGGCAGGCTTCTCGAGCTCCGGGCCCCGGGCAACCTCGGGCGCTGTTCTGCAGGCCGCGACCGGCATGTA
CGAGCAACTCAAGGGCGAGTGGAAACCGTAAAAGCCCCAATCTTAGCAAGTGCGGGGAAGAGCTGGGTCTGACTCAA
GCTAGTTCTTCTGGAGCTCAACTTCTTGCCAACCACAGGGACCAAGCTGACCAAACAGCAGCTAATTCTGGCCCG
TGACATACTGGAGATCGGGGCCCCAATGGAGCATCCTACGCAAGGACATCCCCTCCTTCGAGCGCTACATGGCCCA
GCTCAAATGCTACTACTTTTGATTACAAGGAGCAGCTCCCCGAGTCAGCCTATATGCACCAGCTCTTGGGCCTCAA
CCTCCTCTTCTGCTGTCCCAGAACC GG GTGGCTGAGTTCCACACGGAGTTGGAGCGGCTGCCTGCCAAGGACAT
ACAGACCAATGTCTACATCAAGCACCCAGTGTCCCTGGAGCAATACCTGATGGAGGGCAGCTACAACAAAGTGTT
CCTGGCCAAGGGTAACATCCCCGCCGAGAGCTACACCTTCTTCATTGACATCCTGCTCGACACTATCAGGGATGA
GATCGCTGGGTGCATCGAGAAGGCCTACGAGAAAATCCTTTTCACTGAGGCCACCCGGATCCTCTTCTTCAACAC
ACCCAAAAAGATGACAGACTACGCCAAGAAGCGAGGGTGGGTCTGGGCCCCAACAACTACTACAGTTTGGCCAG
CCAGCAGCAGAAGCCGGAAGACACCACCATTCCTCCACAGAACTGGCCAAACAGGTCATCGAGTATGCCCGGCA
GCTGGAGATGATCGTCTGAGCCCCCGGGCACTGGGTGGGGCAGGGCACGAGTTATTTAAACAGTTACACTGCA
GGGTTTCGCCCAATAAAGGTGGACTGAC

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FIGURE 5402

MYEQLKGEWNRKSPNLSKCGEELGRLKLVLELNFLPTTGTKLTQQILILARDILEIGAQWSILRKDIPSFERYM
AQLKCYFDYKEQLPESAYMHQLLGLNLLFLLSQNRVAEFHTELERLPAKDIQTNVYIKHPVSLEQYLMESYNK
VFLAKGNIPAESYTFFIDILLDTIRDEIAGCIEKAYEKILFTEATRILFFNTPKKMTDYAKKRGWVLGPNNYYSF
ASQQQKPEDTTIPSTELAKQVIEYARQLEMIV

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FIGURE 5403A

TCTACCTCGCGGGTGCCTCTGGTGTCTCCAGAGGTCTCCGACCCAGCCCGCCCCAGCCCTCCCGCCCAGCCCG
CAGCCCCCTCCCTCTGTTCCCCGACCTCAGACCCCTGGGCTTCCGACCTCGACATCATGGGTGACGCAGAAGGCGA
AGACGAGGTCCAGTTCCTGCGGACGGACGATGAGGTGGTCTCGAGTGCAGCGCTACCGTGCTCAAGGAGCAGCT
CAAGCTCTGCCTGGCCGCCGAGGGCTTCGGCAACCGCTGTGCTTCTTGAGCCCCACTAGCAACGCGCAGAATGT
GCCCCCGATCTGGCCATCTGTTGCTTCGTCTGGAGCAGTCCCTGTCTGTGCGAGCCCTGCAGGAGATGCTGGC
TAACACGGTGGAGGTGGCGTGGAGTCATCCAGGGCGGGGACACAGGACGCTCCTGTATGGCCATGCCATCCT
GCTCCGGCATGCACACAGCCGATGTATCTGAGCTGCCTCACCACCTCCCGCTCCATGACTGACAAGCTGGCCTT
CGATGTGGGACTGCAGGAGGACGCAACAGGAGAGGCTTGCTGGTGGACCATGCACCCAGCCTCCAAGCAGAGGTG
TGAAGGAGAAAAGGTCCGCGTTGGGGATGACATCATCCTTGTGCTGCTCCTCCGAGCGCTACCTGCACCTGTC
GACCGCCAGTGGGGAGCTCCAGGTTGACGCTTCCTTCATGCAGACACTATGGAACATGAACCCCATCTGCTCCCG
CTGCGAAGAGGGCTTCGTGACGGGAGGTACGTCCTCCGCTCTTTCATGGACATATGGATGAGTGTCTGACCAT
TTCCCTGCTGACAGTGATGACCAGCGCAGACTTGCTACTATGAGGGGGGAGCTGTGTGCACTCATGCCCGCTC
CCTCTGGAGGCTGGAGCCACTGAGAATCAGCTGGAGTGGGAGCCACCTGCGCTGGGGCCAGCCACTCCGAGTCCG
GCATGTCACTACCGGGCAGTACCTAGCGCTCACCAGGAGCAGGGGCTGGTGGTGGTTGACGCCAGCAAGGCTCA
CACCAAGGCTACCTCCTTCTGCTTCCGCATCTCCAAGGAGAAGCTGGATGTGGCCCCAAGCGGGATGTGGAGGG
CATGGGCCCCCCCTGAGATCAAGTACGGGGAGTCACTGTGCTTCGTGACGATGTGGCCTCAGGACTGTGGCTCAC
CTATGCTGCTCCAGACCCCAAGGCCCTGCGGCTCGGCGTGCTCAAGAAGAAGGCCATGCTGCACCAGGAGGGCCA
CATGGACGACGCATGTGCTGCTGACCCGCTGCCAGCAGGAGGAGTCCAGGCCGCCCGCATGATCCACAGCACCAA
TGGCCTATACAACAGTTTCATCAAGAGCCTGGACAGCTTCAGCGGGAAGCCACGGGGCTCGGGGCCACCCGCTGG
CACGGCGCTGCCCATCGAGGGCGTTATCCTGAGCCTGCAGGACCTCATCTACTTCGAGCCTCCCTCCGAGGA
CTTGACGACGAGGAGAAGCAGAGCAAGCTGCCAAGCCTGCGCAACCGCCAGAGCCTCTTCCAGGAGAGGGGAT
GCTCTCCATGGTCTGAAATTGCATAGACCGCTAAATGTCTACACCACTGCTGCCCACTTCTGCTGAGTTTGCAGG
GGAGGAGGCAGCCGAGTCCCTGGAAGAGATTGTGAATCTTCTATGAACCTCTAGCTTCTCTAATCCGTGGCAA
TCGTAGCAACTGTGCCCTCTTCTCCACAACTTGGACTGGCTGGTCAGCAAGCTGGATCGGCTGGAGGCTCGTC
TGGCATCCTGGAGGTCTGTACTGTGCTCCTCATTGAGAGTCCAGAGGTCTGAACATCATCCAGGAGAATCACAT
CAAGTCCATCATCTCCCTCCTGGACAAGCATGGGAGGAACCACAAGGTCTGACGCTGCTATGCTCCCTGTGTGT
GTGTAATGGTGTGGCTGTACGCTCCAACCAAGATCTTATTACTGAGAACTTGTGCTGCTGGCCGTGAGCTTCTGCT
GCAGACAAACCTCATCAACTATGTACCAGCATCCGCCCCAACATCTTTGTGGCCGAGCGGAAGGCACCAACGCA
GTACAGCAAATGGTACTTTGAGGTGATGGTGGACGAGGTGACTCCATTTCTGACAGCTCAGGCCACCCACTTGCG
GGTGGGCTGGGCCCTACCGAGGGCTACCCCCCTACCTGGGGCCGGCGAGGGCTGGGGCGGCAACGGGGTCGG
CGATGACCTCTATTCTACGGCTTTGATGGACTGCATCTCTGGACAGGACACGTGGCACGCCAGTGACTTCCCC
AGGGCAGCACCTCCTGGCCCCCTGAAGACGTGATCAGCTGCTGCCTGGACCTCAGCGTGCCGTCCATCTCCTTCCG
CATCAACGGCTGCCCGTGCAGGGTGTCTTTGAGTCTTCAACCTGGACGGGCTCTTCTTCCCTGTTGTGACGTT
CTCGGCTGGTGTCAAGGTGCGGTTCTTCTTGGTGGCCGCCATGGTGAATTCAAGTCTCTGCCCCACCTGGCTA
TGCTCCATGCCATGAGGCTGTGCTCCCTCGAGAGCGACTCCATCTTGAACCCATCAAGGAGTATCGACGGGAGGG
GCCCCGGGGGCTCACCTGGTGGGGCCAGTCGCTGCCTCTCACACACCGACTTCGTGCCCTGCCCTGTGGACAC
TGTCCAGATTGTCTGCGCCCCATCTGGAGCGCATTCGGGAGAAAGCTGGCGGAGAACATCCACGAGCTCTGGGC
GCTAACCCGCATCGAGCAGGGCTGGACCTACGGCCCGGTTTCGGGATGACAACAAGAGGCTGCACCCGTGTCTTGT
GGACTTCCACAGCCTTCCAGAGCCTGAGAGGAACTACAACCTGCAGATGTCTGGGGAGACGCTCAAGACTCTGCT
GGCTCTGGGCTGCCACGTGGGCATGGCGGATGAGAAGGCGGAGGACAACCTGAAGAAGACAAAACCTCCCCAAGAC
GTATATGATGAGCAATGGGTACAAGCCGGCTCCGCTGGACCTGAGCCACGTGCGGCTGACGCCGGCGCAGACGAC
ACTGGTGGACCGTCTGGCAGAAAATGGGCACAACGTGTGGGGCCGAGACCGGTGGGCCAGGGCTGGAGCTACAG
CGCAGTGCAGGACATCCAGCGCGCCGAAACCTCGGCTGGTGCCTACCGCTGCTGGATGAAGCCACCAAGCG
CAGCAACCGGGACAGCCTCTGCCAGGCCGTGCGCACCTCCTGGGCTACGGCTACAACATCGAGCCTCCTGACCA
GGAGCCAGTCAGGTGGAGAACCAGTCTCGTTGTGACCGGTGCGCATCTTCCGGGCAGAGAAATCTATACAGT
GCAGAGCGGCCGCTGGTACTTTCAGTTTGAAGCAGTACCACAGGCGAGATGCGCGTGGGCTGGGCGAGGCCGA
GCTGAGGCCTGATGTAGAGCTGGGAGCTGACGAGCTGGCCTATGTCTTCAATGGGCACCGCGGCCAGCGCTGGCA
CTTGGGCAGTGAACATTTGGGCGCCCCCTGGCAGCCGGGCGATGTGCTTGGCTGTATGATCGACCTCACAGAGAA

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FIGURE 5403B

CACCATTATCTTCACCCTCAATGGCGAGGTCTCATGTCTGACTCAGGCTCCGAAACAGCCTTCCGGGAGATTGA
GATTGGGGACGGCTTCCCTGCCCGTCTGCAGCTTGGGACCTGGCCAGGTGGGTTCATCTGAACCTGGGCCAGGACGT
GAGCTCTCTGAGGTTCTTTGCCATCTGTGGCCCTCCAGGAAGGCTTCGAGCCATTTGCCATCAACATGCAGCGCCC
AGTACCACCTGGTTTCAGCAAAGGCCTGCCCCAGTTTGTAGCCAGTGCCCTTGAACACCCTCACTATGAGGTATC
CCGAGTGGACGGCACTGTGGACACGCCCCCTGCCTGCGCCTGACCCACCGCACCTGGGGCTCCCAGAACAGCCT
GGTGGAGATGCTTTTCTGCGGCTGAGCCTCCAGTCCAGTTCCACCAGCACTTCCGCTGCACTGCAGGGGCCAC
CCCGTGGCACCTCCTGGCCTGCAGCCCCCGCCGAGGACGAGGCCCGGGCGGGCGGAACCCGACCCTGACTACGA
AAACCTGCGCCGCTCAGCTGGGGCTGGAGCGAGGCGAGAGAACGGCAAAGAAGGGACTGCGAAGGAGGGCGCCCC
CGGGGGCACCCGCGAGGCGGGGGGAGAGGCGCAGCCCCGCCAGGGCGGAGAATGAGAAGGATGCCACCACCGAGAA
GAACAAGAAGAGAGGCTTCTTATTCAAGGCCAAGAAGGTGCGCATGATGACCCAGCCACCGGCCACCCCCACGCT
GCCCCGACTCCCTCACGACGTGGTGCTGCAGACAACCGCGATGACCCCGAGATCATCTCAACACCACACGTA
CTATTACTCCGTGAGGGTCTTTGCTGGACAGGAGCCCAGCTGCGTGTGGGCGGGCTGGGTACCCCTGACTACCA
TCAGCACGACATGAGCTTCGACCTCAGCAAGGTCCGGGTGCTGACGGTGACCATGGGGGATGAACAAGGCAACGT
CCACAGCAGCCTCAAGTGTAGCAACTGCTACATGGTGTGGGGCGGAGACTTTGTGAGTCCCGGGCAGCAGGGCCG
GATCAGCCACACGGACCTTGTCTATTGGGTGCCTGGTGGACTTGGCCACTGGCTTAATGACCTTTACAGCCAATGG
CAAAGAGAGCAACACCTTTTTCCAGGTGGAACCCAACACTAAGCTATTTCTGCCGTCTTCGTCTGCCACCCA
CCAGAACGTATCCAGTTTGAGCTGGGGAAGCAGAAGAATCATGCCGTTGTGAGCCGCCATGTTCCAAAGCGA
GCGCAAGAACCCGGCCCCGAGTGCCACCGCGGTGGAGATGCAGATGCTGATGCCAGTGTCTGGAGCCGCAT
GCCCAACCACTTCTGACGTTGGAGACGAGGCGTGCCGGCGAGCGGTGGGCTGGGCGGTGCAGTGCCAGGAGCC
GCTGACCATGATGGCGCTGCACATCCCCGAGGAGAACCGGTGCATGGACATCCTGGAGCTGTGCGAGCGCCTGGA
CCTGCAGCGCTTCCACTCGCACACCCTGCGCCTCTACCGCGCTGTGTGCGCCCTGGGCAACAATCGCGTGGCGCA
CGCTCTGTGCAGCCACGTAGACCAAGCTCAGCTGCTGCACGCCCTGGAGGACGCGCACCTGCCAGGCCCCACTGCG
CGCAGGCTACTATGACCTCCTCATCAGCATCCACCTCGAAAGTGCTGCCGAGCCGCCCTCCATGCTCTCTGA
ATACATCGTGCCCTCACGCCTGAGACCCGCGCCATCACGCTCTTCCCTCCTGGAAGGAGCACAGAAAAGTGTCA
CCCCGGCATGGCCTGCCGGGAGTTGGAGTCACTTCCGTGAGGCCCCCGCATCATTTCTCGCCCCCTGTTT
CGTGGCCGCTCTGCCAGCTGCTGGGGCAGCAGAGGCCCGGCCCGCTCAGCCCTGCCATCCCCCTGGAGGCCCT
GCGGGACAAGGCACTGAGGATGCTGGGGAGGCGGTGCGCGACGTTGGGCGACGCTCGCGACCCCGTGGGGG
CTCCGTGGAGTTCCAGTTTGTGCTGTGCTCAAGCTCGTGTCCACCTGCTGGTGTGATGGGCATCTTTGGCGATGA
GGATGTGAACAGATCTTGAAGATGATTGAGCCTGAGGTCTTCACTGAGGAAGAAGAGGAGGAGGACGAGGAGGA
AGAGGGTGAAGAGGAAGATGAGGAGGAGAAGGAGGAGGATGAGGAGGAACAGCACAGGAAAAAGGAAGATGAGGA
AAAAGAGGAAGAGGAGGAGCAGCAGAAGGGGAGAAAGAAGAAGGCTTGGAGGAAGGGCTGCTCCAGATGAAGTTGCC
AGAGTCTGTGAAGTTACAGATGTGCCACCTGCTGGAGTATTTCTGTGACCAAGAGCTGCAGCACCGTGTGGAGTC
CCTGGCAGCCTTTGCGGAGCGCTATGTGGACAAGCTCCAGGCCAACCAGCGGAGCCGCTATGGCCTCCTCATAAA
AGCCTTCAGCATGACCGCAGCAGAGACTGCAAGACGTACCCGCGAGTTCCGCTCCCCACCCAGGAACAGATCAA
TATGCTATTGCAATTCAAAGATGGTACAGATGAGGAAGACTGTCTCTCCCTGAAGAGATTCGACAGGATTTGCT
TGACTTTTCATCAAGACCTGCTGGCACACTGTGGAATTACGCTAGATGGAGAGGAGGAGGAACAGAGGAAGAGAC
CACCTTGGGCAGCCGCTCATGAGCCTGTTGGAGAAAGTGCGGCTGGTGAAGAAGAAGGAAGAGAAACCTGAGGA
GGAGCGGTGAGCAGAGGAGAGCAAACCCCGGTCCCTGCAGGAGCTGGTGTCCACATGGTGGTGCCTGGGCCCA
AGAGGACTTCTGTGAGAGCCCCGAGCTGGTGGGGCCATGTTACGCTCCTGCACCGGCAGTACGACGGGCTGGG
TGAGCTGCTGCGTGCCCTGCCGCGGGCGTACCATCTCACCGTCTCCGTGGAAGACACCATGAGCCTGCTCGA
GTGCTCGGCCAGATCCGCTCGCTGCTCATCGTGAGATGGGCCCCCAGGAGGAGAACCTCATGATCCAGAGCAT
CGGGAACATCATGAACAACAAAGTCTTCTACCAACACCCGAACCTGATGAGGGCGCTGGGCATGCACGAGACGGT
CATGGAGGTGATGGTCAACGTCTCGGGGGCGGCGAGTCCAAGGAGATCCGCTTCCCCAAGATGGTGACAAGCTG
CTGCCGCTTCTCTGCTATTTCTGCCGAATCAGCCGGCAGAACAGCGCTCCATGTTTGACCACCTGAGCTACCT
GCTGGAGAACAGTGGCATCGGCCTGGGCATGCAGGGCTCCACGCCCTGGACGTGGTGTGCTTCCGTGCTTGA
CAACAATGAGCTGGCCTTGGCATTGCAGGAGCAGGACCTGGAAAAGGTTGTGTCTACCTGGCAGGCTGTGGCCT
CCAGAGCTGCCCCATGCTTGTGGCCAAAGGGTACCCAGACATTGGCTGGAACCCCTGTGGTGGAGAGCGCTACCT
GGACTTCTGCGCTTTGCTGTCTTCGTCAACGGCGAGAGCGTGGAGGAGAACGCCAATGTGGTGGTGCCTGCT

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FIGURE 5403C

CATCCGGAAGCCTGAGTGCTTCGGACCCGCCCTGCGGGGTGAGGGTGGCTCAGGGCTGCTGGCTGCCATCGAAGA
GGCCATCCGCATCTCCGAGGACCTGCGAGGGATGGCCAGGCATCCGCAGGGACCGGCGGCGAGCACTTTGG
TGAGGAACCGCCTGAAGAAAACCGGTGCACCTGGGACACGCCATCATGTCTTCTATGCCGCCTTGATCGACCT
GCTCGGACGCTGTGCACCAGAGATGCATCTAATCCAAGCCGGCAAGGGTGAGGCCCTGCGGATCCGCGCCATCCT
CCGCTCCCTTGTGCCCTTGGAGGACCTTGTGGGCATCATCAGCCTCCCACTGCAGATTCCCACCTGGGCAAAGA
TGGGGCTCTGGTGCAGCAAAGATGTCAGCATCCTTCGTGCCGGACCACAAGGCGTCCATGGTGCTCTTCTGGA
CCGTGTGTATGGCATCGAGAACCAGGACTTCTTGTGTCACGTGCTGGACGTGGGGTTCTTGCCCGACATGAGGGC
AGCCGCCTCGCTGGACACGGCCACTTTCAGCACCACCGAGATGGCGCTGGCGCTGAACCGCTACCTGTGCCTGGC
CGTGCTGCCGCTCATACCAAGTGTGCGCCGCTCTTTGCGGGCACAGAACACCGCGCCATCATGGTGGACTCTAT
GCTGCATACCGTGTACCGCCTGTCTCGGGGTGCTTCGCTCACCAAGGCGCAGCGTGACGTATCGAGGACTGCCT
CATGTGCTCTGTCAGGTACATCCGCCCCTCGATGTGTCAGCACCTGTTGCGCCGCTGGTGTTGACGTGCCCAT
CCTCAACGAGTTTCGCCAAGATGCCACTCAAGCTCCTCACCAACCCTATGAGCGCTGTTGGAAGTACTACTGCCT
ACCCACGGGCTGGGCCAACTTCGGGGTCACCTCAGAGGAGGAGCTGCACCTCACACGGAACTCTTCTGGGGCAT
CTTTGACTCTCTGGCCCATAGAAAATACGACCCGGAGCTGTACCGCATGGCCATGCCTTGTCTGTGCGCCATTGC
CGGGGCTCTGCCCCCGACTATGTGGATGCCTCATCTCATCTAAGGCAGAGAAAAAGGCCACAGTGGAATGCTGA
AGGCAACTTTGATCCCCGGCTGTGGAGACCCTCAATGTGATCATCCCGGAGAAGCTGGACTCCTTCATTAACAA
GTTTGCGGAGTACACACAGAGAAGTGGGCTTCGACAAGATCCAGAACAACTGGTCTATGGAGAGAACATAGA
CGAGGAGCTGAAGACCCACCCCATGCTGAGGCCCTACAAGACCTTTTCAGAGAAGGACAAAGAGATTTACCGCTG
GCCCATCAAGGAGTCCCTGAAGGCCATGATTGCCTGGGAATGGACGATAGAGAAGGCCAGGGAGGGTGAGGAGGA
GAAGACGGAAAAGAAAAAACGCGGAAGATATCAAAAGTGCCAGACCTATGATCCTCGAGAAGGCTACAACCC
TCAGCCCCCGACCTTAGTGCTGTTACCTGTCTCCGGAGCTGCAGGCCATGGCAGAACAACTGGCAGAAAATTA
CCACAACACGTGGGGACGGAAGAAGAAGCAGGAGCTGGAAGCCAAAGCGGTGGGACCCACCCCTGCTGGTCCC
CTACGACACGCTCACGGCCAAGGAGAAGGCACGAGATCGAGAGAAGGCCAGGAGCTACTGAAATTCCTGCAGAT
GAATGGCTACGCGGTTACAAGAGGCCCTTAAGGACATGGAAGTGGACTCGTCTTCCATTGAAAAGCGGTTTGCTT
TGGCTTCTGTCAGCAGCTGCTGCGCTGGATGGACATTTCTCAGGAGTTCATTGCCACCTGGAGGCTGTGGTCAG
CAGTGGGCGAGTGGAAAAGTCCCCACATGAACAGGAGATTAAATTTCTTTGCCAAGATCCTGCTCCCTTTGATCAA
CCAGTACTTCACCAACCCTGCCTCTATTCTTGTCCACTCCGGCTAAAGTGCTGGGCGAGCGGTGGCCACGCGCTC
TAACAAGGAGAAGGAAATGATCACCAGCCTCTTCTGCAAACTTGCTGCTCTCGTCCGCCACCGAGTCTCTCTCTT
TGGGACAGACGCCCCAGCTGTGGTCAACTGTCTTCACATCCTGGCCCCGCTCCCTGGATGCCAGGACAGTGATGAA
GTCAGGCCCCTGAGATCGTGAAGGCTGGCCTCCGCTCCTTCTTCGAGAGTGCCCTCGGAGGACATCGAGAAGATGGT
GGAGAACC TGCGGCTGGGCAAGGTGTCGACGGCGCGCACCCAGGTGAAAGGCGTGGGCCAGAACCTCACCTACAC
CACTGTGGCACTGCTGCCGGTCTCACCACCTCTTCCAGCACATCGCCAGCACAGTTTCGGAGATGACGTCAT
CCTGGACGACGTCCAGGTCTCTTGCTACCGAACGCTGTGCAATCTACTCCCTGGGAACCAACAAGAACACTTA
TGTGGAAAAGCTTCGGCCAGCCCTCGGGGAGTGCTGGCCCGCTTGGCAGCAGCCATGCCGGTGGCGTTCTGGA
GCCGCACTGAACGAGTACAACGCCTGCTCCGTGTACACCACCAAGTCTCCGCGGGAGCGGGCCATCCTGGGGCT
CCCCAACAGTGTGGAGGAGATGTGTCCGACATCCCGGTGCTGGAGCGGCTCATGGCAGACATTGGGGGGCTGGC
CGAGTCAGGTGCCCGCTACACAGAGATGCCGCATGTATCGAGATCACGCTGCCCATGCTATGCAGCTACCTGCC
CCGATGGTGGGAGCGCGGGGCCGAGGCACCCCTTCCGCCCTGCCCGCGGGCGCCCCCCCCACCCTGCACAGCTGT
CACCTCTGACCACCTCAACTCCCTGCTGGGGAATATCCTGAGAATCATCGTCAACAACCTGGGCATTGACGAGGC
CTCCTGGATGAAGCGGCTGGCTGTGTTGCGACAGCCCATTTGTGAGCCGTGCACGGCCGGAGCTCCTGCAGTCCCA
CTTCATCCCAACTATCGGGCGGCTGCGCAAGAGGGCAGGGAAGGTGGTGTCCGAGGAGGAGCAGCTGCGCTGGA
GGCCAAGGCGGAGGCCAGGAGGGCGAGCTGCTGGTGCGGGACGAGTTCTCTGTGCTCTGCCGGGACCTCTACGC
CCTGTATCCGCTGCTCATCCGCTACGTGGACAACAACAGGGCGCAGTGGCTGACGGAGCCGAATCCCAGCGCGGA
GGAGCTGTTCAAGATGGTGGGCGAGATCTTCATCTACTGGTCCAAGTCCCACTTCAAGCGCGAGGAGCAGAA
CTTTGTGGTCCAGAAATGAGATCAACAACATGTCTTCTGACTGCTGACAACAAAAGCAAAATGGCTAAGGCGGG
AGATATACAGTCCGGTGGCTCGGACCAGGAACGCACCAAGAAGAAGCGCCGGGGGACCGGTACTCTGTGCAGAC
GTCATGATCGTGGCCACACTGAAGAAGATGCTGCCCATCGGCCTGAATATGTGTGCGCCACCGACCAAGACCT
CATCACGCTGGCCAAGACCCGTTACGCCCTGAAAGACACAGATGAGGAGGTCCGGGAATTTCTGCACAACAACCT

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FIGURE 5403D

TCACCTTCAGGGAAAGGTCGAAGGCTCCCCGTCTCTGCGCTGGCAGATGGCTCTGTACCGGGGCGTCCCGGGTCCG
CGAGGAGGACGCCGATGACCCCGAGAAAATCGTGCGCAGAGTCCAGGAAGTGTGAGCCGTGCTCTACTACCTGGA
CCAGACCGAGCACCCCTTACAAGTCTAAGAAGGCCGTGTGGCACAAGCTTTTGTCCAAACAGCGCCGGCGGGCAGT
CGTGGCCTGTTTTCCGTATGACGCCCCGTGTACAACCTGCCACGCAACCGGGCATGTAACATGTTCTGGAGAGCTA
CAAGGCTGCATGGATCCTGACTGAAGACCACAGTTTTGAGGACCGCATGATAGATGACCTTTCAAAGCTGGGGA
GCAGGAGGAGGAGGAGGAAGAGGTGGAAGAGAAGAAGCCAGACCCCTGCACCAGTTGGTCTGCACTTCAGCCG
CACTGCCCTGACGGAAAAGAGCAAACCTGGATGAGGATTACCTGTACATGGCCTATGCTGATATCATGGCAAAGAG
CTGCCACCTGGAGGAGGGAGGGGAGAACGGTGAAGCTGAAGAGGAGGTTGAGGTCTCCTTTGAGGAGAAACAGAT
GGAGAAGCAGAGGCTCTTGTACCAGCAAGCACGGCTGCACACCCGGGGGGCGGCCGAGATGGTGTGTCAGATGAT
CAGTGCCCTGCAAAGGAGAGACAGGTGCCATGGTGTCTCCACCCTGAAGCTGGGCATCTCCATCCTCAATGGAGG
CAATGCTGAGGTCCAGCAGAAAATGCTGGATTATCTTAAGGACAAGAAGGAAGTTGGCTTCTTCCAGAGTATCCA
GGCACTGATGCAAACATGCAGCGTCTGGATCTCAATGCCCTTGAGAGACAGAAACAGGCCGAGGGGCTGGGCAT
GGTGAATGAGGATGGCACTGTCTCAATGCCAGAACGGAGAGAAGGTTCATGGCGGATGATGAATTCACACAAGA
CCTGTTCCGATTCTTACAATTGCTCTGTGAGGGGCACAATAATGATTTCAGAACTACCTACGGACACAGACAGG
GAACAGCAGACTATTAACATCATCATTTGCACTGTGGACTACCTCCTGCGGCTGCAGGAATCCATCAGCGACTT
CTACTGGTACTACTCGGGCAAGGATGTCAATTGAAGAGCAGGGCAAGAGGAACCTTCTCAAAGCCATGTGGTGGC
TAAGCAGGTGTTCAACAGCCTCACTGAGTACATCCAGGGTCCCTGCACCGGGAACAGCAGAGCCTGGCGCACAG
TCGCCTATGGGACGTCAGTGGTGGGATTCTGCACTGTTCGCCACATGATGATGAAGCTCGCTCAGGACTCAAG
CCAGATCGAGCTGCTGAAGGAGCTGCTGGATCTGCAGAAGGACATGGTGGTGTGTTGCTGTGCTACTAGAAGG
GAACGTGGTGAACCGCATGATCGCCCGGCAGATGGTGGACATGCTCGTGAATCCTCATCCAATGTGGAGATGAT
CCTCAAGTTCTTCGACATGTTCTTGAACCTCAAGGACATTGTGGGCTCTGAAGCCTTCCAGGACTACGTAACGGA
TCCCCGTGGCCTCATCTCCAAGAAGGACTTCCAGAAGGCCATGGACAGCCAGAAGCAGTTACGCGGTCCAGAAAT
CCAGTTCTGCTTTCGTGCTCCGAAGCGGATGAGAACGAAATGATCAACTGCGAAGAGTTCCGCAACCGCTTCCA
GGAGCCAGCACGCGACATCGGCTTCAACGTGGCGGTGCTGCTGACCAACCTGTGCGGATGTCGCGCATGACCC
TCGCCTGCACAACCTTCTGGAGCTGGCCGAGAGCATCCTTGAGTACTTCCGCCCCCTACCTGGGCGCATCGAGAT
CATGGGCGCGTCACGCCGCATCGAGCGCATCTACTTCGAGATCTCAGAGACCAACCGCGCCAGTGGGAGATGCC
CCAGGTGAAGGAGTCCAAGCGCCAGTTCATCTTCGACGTGGTGAACGAGGGCGCGGAGGCTGAGAAGATGGAGCT
CTTCGTGAGTTTCTGCGAGGACACCATCTTCGAGATGCAGATCGCCGCGCAGATCTCGGAGCCGAGGGCGAGCC
GGAGACCGACGAGGACGAGGGCGCGGGCGCGGCGGAGGCGGGCGCGGAAGGCGCGGAGGAGGGCGCGCGGGGCT
CGAGGGCACGGCGGCCACGGCGGCGGGGGGCGACGGCGCGGGTTGTGGCGGCCGAGGCCGGGCCCTGCGAGG
CCTCAGCTACCGCAGCCTGCGGCGGCGCGTGCGGCGGCTGCGGCGGCTTACGGCCCCGCGAGGCGGCCACCGCAGT
GGCGGCGCTGCTCTGGGCAGCAGTGACGCGCGCTGGGGCCGCTGGCGCGGGGCGGCGGGCGGCGCTGGGCCT
GCTCTGGGGCTCGCTGTTCCGCGGCGGCTGGTGGAGGGCGCCAAGAAGGTGACGGTGACCGAGCTCCTGGCAGG
CATGCCCCGACCCACAGCGACGAGGTGCACGGCGAGCAGCCGGCCGGGCGGGCGGAGACGCAGACGGCGAGGG
TGCCAGCGAGGGCGCTGGAGACGCCGCGGAGGGCGCTGGAGACGAGGAGGAGGCGGTGCACGAGGCCGGGCCGGG
CGGTGCCGACGGGGCGGTGGCCGTGACCGATGGGGGCCCTTCCGGCCCGAAGGGGCTGGCGGTCTCGGGGACAT
GGGGGACACGACGCTGCGGAACCGCCACACCCGAGGGCTCTCCCATCCTCAAGAGGAAATTGGGGGTGGATGG
AGTGGAGGAGGAGCTCCCGCCAGAGCCAGAGCCGAGCCGGAACAGAGCTGGAGCCGGAGAAAGCCGATGCCGA
GAATGGGGAGAAGGAAGAAGTTCCCGAGCCACACAGAGCCCCCAAGAAGCAAGCACCTCCCTACCCCCCTCC
AAAGAAGGAGGAAGCTGGAGGCGAATTCTGGGGAGAAGTGGAGGTGCAGAGGGTGAAGTTCTGAACTACCTGTC
CCGGAACTTTACACCTGCGGTTCTTGGCCTCTTCTTGGCATTGTCATCAACTTCTGCTGTTTTATAA
GGTCTCAGACTCTCCACGAGGGGAGGACGACATGGAAGGCTCAGCTGCTGGGGATGTGTGAGGTGCAGGCTCTGG
TGGCAGCTCTGGCTGGGGCTTGGGGGCCGGAGAGGAGGAGGCGATGAGGATGAGAACATGGTGTACTACTT
CCTGGAGGAAAGCACAGGCTACATGGAACCGCCCTGCGGTGTCTGAGCCTCCTGCATACACTGGTGGCCTTTCT
CTGCATCATTTGGCTATAATTGTCTCAAGGTGCCCTGGTAATCTTTAAGCGGGAGAAGGAGCTGGCCCGGAAGCT
GGAGTTTGATGGCCTGTACATCACGGAGCAGCCTGAGGACGATGACGTGAAGGGGCGAGTGGGACCGACTGGTGTCT
CAACACGCGCTCTTTCCCTAGCAACTACTGGGACAAGTTTGTCAAGCGCAAGGTCTGGACAAACATGGGGACAT
CTACGGGCGGGAGCGGATTGCTGAGCTACTGGGCATGGACCTGGCCACACTAGAGATCACAGCCCAATGAGCG

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FIGURE 5403E

CAAGCCCAACCCGCCGCCAGGGCTGCTGACCTGGCTCATGTCCATCGATGTCAAGTACCAGATCTGGAAGTTCCGG
GGTCATCTTCACAGACAACTCCTTCCTGTACCTGGGCTGGTATATGGTGATGTCCCTCTTGGGACACTACAACAA
CTTCTTCTTTGCTGCCCATCTCCTGGACATCGCCATGGGGGTCAAGACGCTGCGCACCATCCTGTCTCTGTAC
CCACAATGGGAAACAGCTGGTGATGACCGTGGGCCTTCTGGCGGTGGTCGTCTACCTGTACACCGTGGTGGCCTT
CAACTTCTTCCGCAAGTTCTACAACAAGAGCGAGGATGAGGATGAACCTGACATGAAGTGTGATGACATGATGAC
GTGTTACCTGTTTCACATGTACGTGGGTGTCCGGGCTGGCGGAGGCATTGGGGACGAGATCGAGGACCCCGCGGG
TGACGAATACGAGCTCTACAGGGTGGTCTTCGACATCACCTTCTTCTTCGTTCATCGTCATCCTGTTGGCCAT
CATCCAGGGTCTGATCATCGACGCTTTTGGTGAGCTCCGAGACCAACAAGAGCAAGTGAAGGAGGATATGGAGAC
CAAGTGCTTCATCTGTGGAATCGGCAGTGACTACTTTGATACGACACCGCATGGCTTCGAGACTCACACGCTGGA
GGAGCACAACCTGGCCAATTACATGTTTTTCCTGATGTATTTGATAAACAAGGATGAGACAGAACACACGGGTCA
GGAGTCTTATGTCTGGAAGATGTACCAAGAGAGATGTTGGGATTCTTCCCAGCTGGTGATTGTTTCCGTAAGCA
GTATGAGGACCAGCTTAGCTGACACACCCCCAGCTGGCCCTCCACCCCCACCTCAAGTGCCTTATTCTCACAGCA
AGCCCCTTAGTCCCCAAGCCCCTCCCCCTAAGGCAGCTGGGGGAGAGGTGACCTAGTAC

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FIGURE 5404

GGAAAGCGTGGCGGCTGCTGCTAGAGCCTTTCCCTTTACCGCACCCAAGGAGCTGGAGCGACAACAACGACGTCG
TTTCCGTTTCCACCACCTCTTCCTGTTCCCGTCCTTGAGGACGCCGTGCCGGGTCAAGTGTTAGCCTCCAGCCCTG
GTTGTGGAAGGCGACAGAAGTCATGGCGATGTTTGAGCAGATGAGAGCCAACGTGGGCAAGTTGCTCAAGGGTAT
CGACAGGTACAATCCTGAGAACCTGGCCACCCTGGAGCGCTATGTAGAGACGCAGGCCAAGGAAAATGCCTATGA
TCTGGAAGCCAACCTGGCTGTCCTGAAGCTGTACCAAGTTCAACCCAGCCTTCTTTAGACCACGGTCACCGCCCA
GATCCTGCTGAAGGCCCTCACCAACTTGCCGCACACAGACTTCACCCTGTGCAAGTGATGATCGACCAGGCACA
TCAAGAAGAACGGCCAATCCGACAGATTTTGTACCTCGGGGACCTGCTGGAGACCTGCCATTTCCAGGCCTTCTG
GCAAGCCCTGGATGAAAACATGGACCTCTTGGAAGGTATAACTGGCTTTGAAGACTCTGTCCGAAAGTTTATCTG
CCATGTTGTGGGTATCACTTACCAGCACATTGACCGCTGGCTGCTGGCCGAGATGCTCGGGGATCTGTCCGGACAG
CCAGCTAAAGGTGTGGATGAGCAAATACGGCTGGAGTGCCGACGAGTCGGGGCAGATCTTCATCTGTAGCCAAGA
AGAGAGCATTAAACCCAAGAACATTGTGGAGAAGATTGACTTTGACAGTGTGTCCAGCATCATGGCCTCCTCCCA
GTAACCTTCAGGTGTTTAATAAAGATGTGTTGACTCAG

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FIGURE 5405

MAMFEQMRANVGKLLKGIDRYNPENLATLERYVETQAKENAYDLEANLAVLKLYQFNPAFFQTTVTAQILLKALT
NLPHTDFTLCKCMIDQAHQEERPIRQILYLGDLLETCHFOAFWQALDENMDLLEGITGFEDSVRKFIHVVGITY
QHIDRWLLAEMLGDLSDSQLKVWMSKYGWSADESGQIFICSQEESIKPKNIVEKIDFDSVSSIMASSQ

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FIGURE 5406

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTGGTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTTCAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5407

MSNVPHKSSLPEGIRPGTVLRIRGLVFPNASRFHVNLLCGEEQGSDAALHFNPRLDTSEVVFNSEQGSWGREER
GPGVPFQRGQPFVLI IASDDGFKAVVGDAQYHHFRHRLPLARVRLVEVGDDVQLDSVRIF

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FIGURE 5408

CCCGGTCCCAGCCATGTCCAACGTCCCCACAAGTCCTCACTGCCCGAGGGCATCCGCCCTGGCACGGTGCTGAG
AATTCGCGGCTTG GTTCCTCCCAATGCCAGCAGGTTCCATGTAAACCTGCTGTGCGGGGAGGAGCAGGGCTCCGA
TGCCGCCCTGCATTTCAACCCCCGGCTGGACACGTCGGAGGTGGTCTTCAACAGCAAGGAGCAAGGCTCCTGGGG
CCGCGAGGAGCGCGGGCCGGGCGTTCCTTTCCAGCGCGGGCAGCCCTTCGAGGTGCTCATCATCGCGTCAGACGA
CGGCTTCAAGGCCGTGGTTGGGGACGCCCAGTACCACCACTTCCGCCACCGCCTGCCGCTGGCGCGCGTGCGCCT
GGTGGAGGTGGGCGGGGACGTGCAGCTGGACTCCGTGAGGATCTTCTGAGCAGAAGCCCAGGCGGGCCCCGGGGCC
TTGGCTGGCAAATAAAGCGTTAGCCCGCAGCGC

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FIGURE 5409

GTGTTGTACGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCC
CATTTCCTGGTGCCGTACAGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGGTTGGT
GACGGGACAGAGCGGTTCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCCCTCTCACC
CTCTGGAGACCCAGGCAGGGAAGGTGCAGGAGGCTCAGGACTCAGATTTCAGACTCTGAGGGAGGAGCCGCTGGTG
GAGAAGCAGACATGGACTTCCTGCGGAACCTATTCTCCAGACGCTCAGCCTGGGCGAGCCAGAAGGAGCGTCTGC
TGGACGAGCTGACCTTGGAAGGGGTGGCCCCGTACATGCAGAGCGAACGCTGTGCGCAGAGTCATCTGTTTGGTGG
GAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGGCCCTCTATGACAACCTAGAGA
AGTACCATCTTCCCTACCCAGAGGCCATCTTTGAGATCAGCTATTTCAAGAAACATCCGGAACCCCTTCTTCGCCC
TCGCCAAGGAACCTCTATCCTGGGCAGTTCAAGCCAACCATCTGTCACTACTTCATGCGCCTGCTGAAGGACAAGG
GGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCCCTGGAGCGAATAGCCGGGCTGGAACAGGAGGACTTGG
TGGAGGCGCACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCACGAATACCCGCTAAGCTGGA
TGAAGAGAAGATCTTCTCTGAGGTGACGCCAAGTGTGAAGACTGTCAGAGCCTGGTGAAGCCTGATATCGTCT
TTTTTGGTGAGAGCCTCCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCTGAAGGTGGACCTCCTCCTGG
TCATGGGTACCTCCTTGCAAGGTGCAGCCCTTTGCCCTCCCTCATCAGCAAGGCACCCCTCTCCACCCCTCGCCTGC
TCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTTCTGGGGATGATTATGGGCCTCGGAGGAGGCATGGACT
TTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGGCTGCCTGGCCCTTGCTGAGC
TCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCCGGAGGGAGCACGCCAGCATAGATGCCAGTCGGGGGCGG
GGGTCCCCAACCCAGCACTTCAGCTTCCCCCAAGAAGTCCCCGCCACCTGCCAAGGACGAGGCCAGGACAACAG
AGAGGGAGAAACCCAGTTGACAGCTGCATCTCCCAGGCGGGATGCCGAGCTCCTCAGGGACAGCTGAGCCCCAAC
CGGGCCTGGCCCCCTCTTAACCAGCAGTTCTTGTCTGGGGAGCTCAGAACATCCCCAATCTCTTACAGCTCCCT
CCCCAAACTGGGGTCCCAGCAACCCTGGCCCCCAACCCAGCAAATCTCTAACACCTCCTAGAGGCCAAGGCTT
AAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCACTCCTGGGCTAAGGAGTAACCTCCCTCATCTCTAACTG
CCCCACGGGGCCAGGGCTACCCAGAACCTTTAACTCTTCCAGGACAGGGAGCTTCGGGCCCCCACTCTGTCTC
CTGCCCCCGGGGCTGTGGCTAAGTAAACCATACTAACCTACCCAGTGTGGGTGTGGGCCTCTGAATATAAC
CCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTCAGCTCCCAAAGTGGGTGGTG
GGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTTATTGGAGACAAATTAAAAAC
AAAAACAATAAC

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FIGURE 5410

MAEPDPSHPLETQAGKVQEAQDSDSSEGGGAAGGEADMDFLRNLFSQTLSSLGSQKERLLDELTLEGVARYMQSER
CRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHY
FMRLKDKGLLLRCTQNIIDTLERAGLEQEDLVEAHGTFYTSVCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQ
SLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGTSLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMI
MGLGGGMDFDKSKAYRDVAWLGECDQGCLALAEELLGWKKELEDLVRREHASIDAQSGAGVNPSTSPKSPFP
AKDEARTTEREKPQ

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FIGURE 5411

CGAAAGCGCGTCTGCGGCCGCAATGTCTGCTGAGAGTTGTAGTTCTGTGCCCTATCACGGCCACTCCCATTCTG
GTGCCGTACGGGACAGAGCAGTCGGTGACAGGACAGAGCAGTCGGTGACGGGACACAGTGTTGGTGACGGGAC
AGAGCGGTGCGGTGACAGCCTCAAGGGCTTCAGCACCGCGCCCATGGCAGAGCCAGACCGACTCAGATTCACTC
TGAGGGAGGAGCCGCTGGTGGAGAAGCAGACATCGACTTCTGCGGAACCTATTCTCCCAGACGCTCAGCCTGGG
CAGCCAGAAGGAGCGTCTGCTGGACGAGCTGACCTTGGAAGGGGTGGCCCGGTACATGCAGAGCGAACGCTGTG
CAGAGTCATCTGTTTGGTGGGAGCTGGAATCTCCACATCCGCAGGCATCCCCGACTTTCGCTCTCCATCCACCGG
CCTCTATGACAACCTAGAGAAGTACCATCTTCCCTACCCAGAGGCCATCTTGAGATCAGCTATTTCAAGAAACA
TCCGGAACCTTCTTCGCCCTCGCCAAGGAACCTATCTGCGGCAGTTCAAGCCAACCATCTGTCACTACTTCAT
GCGCCTGCTGAAGGACAAGGGGCTACTCCTGCGCTGCTACACGCAGAACATAGATACCTGGAGCGAATAGCCGG
GCTGGAACAGGAGGACTTGGTGGAGGCGACGGCACCTTCTACACATCACACTGCGTCAGCGCCAGCTGCCGGCA
CGAATACCCGCTAAGCTGGATGAAAGAGAAGATCTTCTCTGAGGTGACGCCCAAGTGTGAAGACTGTCAGAGCCT
GGTGAAGCCTGATATCGTCTTTTTTGGTGAGAGCCTCCCAGCGCGTTTCTTCTCCTGTATGCAGTCAGACTTCCT
GAAGGTGGACCTCCTCCTGGTCATGGGTACCTCCTTGCAAGGTGCAGCCCTTGCCTCCCTCATCAGCAAGGCACC
CCTCTCCACCCCTCGCCTGCTCATCAACAAGGAGAAAGCTGGCCAGTCGGACCCCTTCTCTGGGGATGATTATGGG
CCTCGGAGGAGGCATGGACTTTGACTCCAAGAAGGCCTACAGGGACGTGGCCTGGCTGGGTGAATGCGACCAGGG
CTGCCTGGCCCTTGCTGAGCTCCTTGATGGAAGAAGGAGCTGGAGGACCTTGTCGGAGGGAGCACGCCAGCAT
AGATGCCCAGTCGGGGGCGGGGTCCCCAACCCAGCACTTCAGCTTCCCCAAGAAGTCCCCGCCACCTGCCAA
GGACGAGGCCAGGACAACAGAGAGGGAGAAACCCAGTGAAGCTGCATCTCCAGGCGGGATGCCGAGCTCCTC
AGGGACAGCTGAGCCCCAACCGGGCCTGGCCCCCTTTAACCAGCAGTTCTTGCTGGGGAGCTCAGAACATCCC
CCAATCTCTTACAGCTCCCTCCCCAAAACCTGGGGTCCCAGCAACCCTGGCCCCAACCCAGCAAATCTCTAACA
CCTCCTAGAGGCCAAGGCTTAAACAGGCATCTCTACCAGCCCCACTGTCTCTAACCCTCCTGGGCTAAGGAGTA
ACCTCCCTCATCTCTAAGTCCCCCACGGGGCCAGGGCTACCCAGAACTTTAACTCTTCCAGGACAGGGAGCT
TCGGGCCCCCACTCTGTCTCCTGCCCCCGGGGGCCTGTGGCTAAGTAAACCATACCTAACCTACCCAGTGTGGG
TGTGGGCTCTGAATATAACCCACACCCAGCGTAGGGGGAGTCTGAGCCGGGAGGGCTCCCGAGTCTCTGCCTTC
AGCTCCCAAAGTGGGTGGTGGGCCCCCTTACGTGGGACCCACTTCCCATGCTGGATGGGCAGAAGACATTGCTT
ATTGGAGACAAATTAAAAACAAAACAATAACAAAAA

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FIGURE 5412

MDFLRNLFSTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHL
PYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLKDKGLLLRCYTQNIIDTLERAGLEQEDLVEAH
GTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLVMGT
SLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMIMGLGGGMDFDSKKAYRDVAWLGECDQGCLALAEELLGW
KKELEDLVRREHASIDAQSGAGVNPSTSPKPKSPPPAKDEARTTEREKPQ

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FIGURE 5413

TGAAGAGGCGGGACACAGACGACGATTGGGCGACGAAGGACTCTATCGCGGTCAACTTTCTCAGGATCTGATTG
GCTCGTCAAGGTCAGGTTTCGCTGCCTTGCAATTGGTCTAAACGCGGAGTGGGCGGGACGAAGTGCCGCCTTGTC
CCGGTCCAAGATGGCTGCGTCCATGGCGCGGCGCTTGTGGCCTTTGCTGACTCGTCGGGGGTTCCGGCCCCGGGG
AGGCTGCATCTCCAACGATAGTCCAAGGAGAAGTTTCACTACAGAGAAACGAAACCGGAACCTCCTGTACGAGTA
TGCGCGCGAGGGCTACAGCGCACTCCCTCAGCTGGACATAGAGCGGTTCTGCGCATGCCAGAAAGAGGCCGCACA
CGCCCTGGAGCTCCGCAAGGGGGAGCTGCGCTCGGCGGACCTGCCCGCGATCATCTCGACATGGCAGGAGCTGAG
GCAGCTGCAGGAGCAGATCCGGAGCCTGGAGGAAGAGAAGGCAGCTGTGACTGAGGCAGTGCGGGCCCTGTCTGGC
AAACCAGGACAGTGGTGAAGTGCAGCAGGACCCCAAGTACCAGGGTCTGCGGGCACGTGGCCGGGAGATCCGGAA
GGAGCTTGTTACCTGTACCCAGGGAGGCCAGCTTGAGGAGCAGTTCTACCTGCAGGCGCTGAAGCTGCCCCAA
CCAGACCCACCCAGACGTGCCCGTGGGGATGAGAGCCAGGCTCGAGTGCTCCACATGGTTCGGAGACAAGCCAGT
TTTCTCCTTCCAACCTCGGGGCCACCTGGAAATTGGCGAGAACTCGACATCATCCGTCAGAAGCGCCTGTCCCA
CGTGCTGCGCCACCGGTCTATTACCTGCGCGGGGCTGGAGCCCTCCTGCAGCACGGCCTGGTCAACTTTCACATT
CAACAAGCTTCTCCGCCGGGGCTTACCCCCATGACGGTGCCAGACCTTCTCCGCGGAGCAGTGTTTGAAGGCTG
TGGGATGACACCAAATGCCAACCATCCCAAATTTACAACATCGACCTGCCCGCTTCAAAGATCTCAACCTGGC
TGGAACAGCGGAGGTGGGGCTTGCAAGGCTACTTCATGGACCACACCGTGGCCTTCAGGGACCTGCCAGTCAGGAT
GGTTTGCTCCAGCACCTGCTACCGGGCAGAGACAAACACGGGACAGGAACCCCGGGGGCTGTATCGAGTACACCA
CTTCACCAAGGTGGAGATGTTTGGGGTGACAGGCCCTGGGCTGGAGCAGAGCTCACAGCTGCTGGAGGAGTTCTT
GTCCCTTCAGATGGAGATCTTGACAGAGCTGGGCTTGCACTTCCGGGTCTGGATATGCCACCCCAAGAACTGGG
CCTCCCCGCCTACCGCAAGTTTGACATTGAGGCCTGGATGCCAGGCCGAGGCCGCTTTGGAGAGGTACCCAGTGC
TTCCAACCTGCACAGACTTCCAGAGCCGCCCTCCACATCATGTTCCAGACCGAGGCTGGGGAGCTGCAGTTTGC
CCACACGGTGAACGCCACCGCCTGTGCTGTCCCCGCCTTCTCATCGCGCTCCTGGAGAGTAACCAGCAGAAGGA
CGGCTCAGTGCTCGTGCCCCCTGCCCTCCAGTCCCTACCTCGGCACTGATCGGATCACAGCCCCCTACCCACGTGCC
TCTCCAGTACATCGGCCCCAACCAGCCCCGGAAGCCTGGGCTGCCTGGCCAGCCTGCTGTAAGCTAAGAACCCAC
CCACAGCAGCCCTCGGGGGTGTCACTGCTTCTGGAGTTTCAGGAGACCCCGACACCTGGGACCTGTGTTGCTGA
GCCCCGTCTGACATCTGTGTTCTTCTGTGCTCAGCTCCACGCCCGGGCCCCTGGACCACGGGGTCCACCTCTCCTCT
GTCCTTGCTGCCTCAGAGTCAGTCACTGACCTGTTATCATTGAGGGTCCCAGTGGGAAGCAGGACGTCTGGGCT
TTACGGTTCTAGGGACAGGAGAAGCAGAGGAAGAGGCTTCCATCCCTCCTTCTTCTCCTACAGTGCTGA
GCAAAAAGTCCCCAATAAATGGTCAGGACAAAAA

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FIGURE 5414

MAASMARRLWPLLTRRGFRPRGGCISNDSPRRSFTTEKRNRLLYEYAREGYALPQLDIERFCACPEEAAHALE
LRKGELRSADLPAIISTWQELRQLQEIQIRSLEEEKAAVTEAVRALLANQDSGEVQQDPKYQGLRARGREIRKELV
HLYPREAQLEEQFYLQALKLPNQTHPDVPVGDESQARVLHMGDKPVFSFQPRGHLEIGEKLDIIRQKRLSHVSG
HRSYYLRGAGALLQHGLVNFTFNKLLRRGFTPMTPDLLRGAVFEGCGMTPNANPSQIYNIDPARFKDLNLAGTA
EVGLAGYFMDHTVAFRDLFVRMVCSSSTCYRAETNTGQEPRGLYRVHHFTKVEMFGVTGPGLEQSSQLLEEFSLQ
MEILTELGLHFRVLDMPQTQELGLPAYRKFDIEAWMPGRGRFGEVTSASNCTDFQSRRLHIMFQTEAGELQFAHTV
NATACAVPRLLIALLESNQQKDGSVLVPPALQSYLGTDRTAPTHVPLQYIGPNQPRKPGLPQPAVS

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FIGURE 5415

AGCTGGATTACAGCGTGTCCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGGCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGTATTTCT
CTTTGATTTAAGCCAGAAAGTCCTGAGAGCGGATCGGGGAGCATTGCGGATCGGTCACTTTTTCTCCTTTCTG
AGTCTCTTATCCCCTACCACAGGGACGGCCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACA
CGTCCCTAACTTGTGGCCAGCTCTGGTTCCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCTGAACCAGATGC
ACCGCCTGGGGCCCCCAAGCGGCCGCTCGGAAGCTGGGCCCCACGGAAGGCCGGCCGAGCTGAAGGGTGTGG
TCCTGTGCACGTTTACCCGCAAGCCGAAGAAAGCCAACTCAGCCAATCGCAAGTGCTGTCGAGTGGGCTCAGCA
CTGGCCGCGAGGCCGCTCTGCTTCATCCCTGGGGAGGGCCACACCCTGCAGGAGCACCAGATTGTCCTTGTGGAGG
GCGGCCGCACCCAGGACCTGCCAGGCGTCAAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGA
AGAAGTGAACGGCTGGGGGCACAGTGGGCTGGGCGCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGG
GTCCTCCGATGCTGGCCTTTGCGCCTCTAGAGGCAGCCACTCATGGATTCAAGTCCTGGCTCCGCTCCTTCCATC
AGGACCACTATTAAGCCATAGGAGTCCTGGGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCCTGGCTCCTGTGTT
TAGAGGGGTGGCCTGAAGGACCTTTTCTGCTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAAT
AAACAGACCCTGGCGCTTGTGATGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5416

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHRLGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5417

AGCTGGATTACAGCGTGTCGCGACCTCACCTTTAGGTCCTGTGAGGTCGGTGGAATCCTGGGGTCCTCCAAATCT
ACCAGGCCATCTCCCCAGTTTCCCAGTTCTTCCTGCGTGCGGGCGAGAGTGGTTGGGCCCCTCGGGAACCCACTCA
GAGCGAGGCTAAATTTACGGAGGGACTTTCTGTTAGCAGCATGAGGGCCTGTGGTTAGACCTATAGAGGGACGGC
CCAGGTGGCAGGATGTCCTGGTCTGGCCTTCTCCATGGCCTCAACACGTCCCTAACTTGTGGCCCAGCTCTGGTT
CCCCGGCTCTGGGCTACCTGCTCCATGGCTACCCCTGAACCAGATGCACCGCCTGGGGCCCCCAAGCGGCCGCT
CGGAAGCTGGGCCCCACGGAAGGCCGGCCGCGAGCTGAAGGGTGTGGTCCTGTGCACGTTTACCCGCAAGCCGAAG
AAGCCCAACTCAGCCAATCGCAAGTGCTGTGAGTGCGGCTCAGCACTGGCCGCGAGGCCGTCTGCTTCATCCCT
GGGGAGGGCCACACCTGTCAGGAGCACCAGATTGTCCTTGTGGAGGGCGGCCGCACCCAGGACCTGCCAGGCGTC
AAGCTCACCGTTGTGCGTGGCAAGTACGACTGTGGCCACGTGCAGAAGAAGTGAACGGCTGGGGGCACAGTGGGCT
GGGCGCCCCCTGCAGAACATGAACCTTCCGCTCCTGGCTGCCACAGGGTCCTCCGATGCTGGCCTTTGCGCCTCTA
GAGGCAGCCACTCATGGATTCAAGTCCGCTCCGCCTCTTCCATCAGGACCACTATTAAGCCATAGGAGTCCTG
GGGGTGCAAAGGGTGCCCCCTCTGTCAACACCCTTGGCTCCTGTGTTTAGAGGGGTGGCCTGAAGGACCTTTTCTG
CTGGGACAAGACACTGTACTGCCCTCTGCTGGGAAGGGGTTTTAATAAACAGACCCTGGCGCTTGTGATGTAAAA
AAAAAAAAAAAAAAAA

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FIGURE 5418

MSWSGLLHGLNTSLTCGPALVPRLWATCSMATLNQMHR LGPPKRPPRKLGPTEGRPQLKGVVLCTFTRKPKKPNS
ANRKCCRVRLSTGREAVCFIPGEGHTLQEHQIVLVEGGRTQDLPGVKLTVVVRGKYDCGHVQKK

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FIGURE 5419

GGGGAGCTTGC GGACAGCTAGGGCATCCCGGCGAGGAGCGCCGCCAGGCCCGGGCCACAGCCGGGCCTGGCGG
GGGGACC**ATG**GGCGCCTCGGTCTCCAGGGGGCCGGGCGCCCGGGTCCCCGCGCCGGAGCCGGAACCCGAAGAGGC
GCTGGACCTGAGCCAACTACCCCCAGAGCTGCTTCTGGTGGTGCTGAGCCACGTCCCCCGCGCACGCTGCTCGG
GCGCTGCCGCCAAGTGTGCCGGGGCTGGCGAGCCCTGGTGGACGGCCAGGCCCTGTGGCTGCTGATCCTGGCCCCG
CGACCACGGCGCCACCGGGCGCGCGCTGCTGCACCTCGCCCGCAGCTGCCAGTCTCCCGCCCGTAACGCCAGGCC
TTGCCCCCTGGGGCGCTTCTGCGCGCGCAGACCCATCGGACGCAACCTTATTGCAACCCCTGCGGCCAAGAAGG
CCTCCGAAAGTGGATGGTGCAACACGGTGGGGACGGCTGGGTGGTGGAGGAAAACAGGACAACCGTGCCCTGGGGC
CCCTTCTCAGACGTGCTTCGTGACTTCATTAGCTGGTGTGCAAGAAGCAGGTCTTGGACCTAGAGGAGGAGGG
TCTGTGGCCAGAACTGCTGGATAGTGGCAGGATTGAGATTTGTGTCTCTGACTGGTGGGGAGCCCCGACACGACAG
CGGCTGTATGTACAGACTCCTCGTCCAACCTTCTAGACGCCAACAGACTGTTCTAGATAAAATTCTCTGCTGTGCC
TGATCCCATCCCGCAGTGGAACAACAATGCCTGCCTTACGTACCCACGTGTTCTCCAACATCAAGATGGGCGT
CCGCTTTGTGTCTTTGCAACACCGGGGCCAGGACACACAGTTCTGGGCTGGCCACTATGGAGCCCCGTGTGACCAA
CTCCAGTGTGATCGTCCGAGTCCGTCTGTCC**TAG**TCCAGCACTACCCCTCTTGCAAGACAGCCTGACTGTGCCCTT
CCAGGGCCTGGGACCATTGGCTGGGACCCCTCATTAAACCAACCAAGCACTTGTACCTCCCTGGCATACTGAGAAT
TCCTGGGTCCAATCAAAGGCCCTGACGGGCCCTGTCTTCAGGTTCTAGAACTACCAGAAGAAGCTTCTTCCATC
TTATCTACCTACTGCAGCTGCTGCTTTGCGGGGGGGCCCTACTGTACTGAGGGGAAAACCCACAAGTGAGCATGGG
GGAATGCCCATCCTGGAGAAGAATTCTTGCCCTCCCCCTCTCTTCTCCCAACCAAAAACCCCTCCGATCCAGCCC
CAGGCCCCCTCTGTACCATCCCCCTCCCCCTCCGCACCACTGACCTCTTGCTCCTGTTGTTTCTGCCACAGGGACTT
CCTTGGTCCCTTCAGGGAAGCCCTCAACTCATCTCTGAACCTAGAACTCTCATCCTTAGGGCTCAGAGAGTCCCAG
CCCTAAGGGTGTGAACCTCACCTCCTGGGGCTTCCGAGCTACAGGGCTGGGACCAGGTCATGCAGCTGAAAGTCT
ACGTTAAAAAAGTTTGGGCCAGGCACAGTGGCTCATGCCGTGTAATCCAGCACTTTGGGAGGCTGAGGCA
GGCGGATCACCTGAGGTGAGGATTCAGAGTTCAGACAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATCCA
AAAAATTAGCCGGGCTTGGTGGTGTGCACCTGTAATTCAGCTACTCGGGAGGCTGAGGCAGGAGAATTGCTTGA
GCCC GGAGGCAGAGGCTGCAGTGAACCAAGATCATGCCACTGCACTCCAGCCTGGGCAACACAGCGAGACTCCG
TCTCAAAAAGAAAAAGTTTGGATCAGGCAGGGTGGCTCACACCTGTAATCCCTGCACTTTGGGAGGCCAAGGTGG
GAGGATCAGTTGAGCCCCAGAGTTCAAGACCAGCCTGGGCAATGTAGTAAGACCCCATCGCTACAAAAAATACA
AAAGTTAGCCAGGTACAGTAGTACACACCTGTAGTCCAAGCTACTTGGGAGGCTGAAGTGGGAGGATCATTGTG
CCCAGGTTGAGGCTATAGTGAGCCATGATCATACCCTGCACTCCAGCCTGGGTGACAGAGCGAGACCCCTGTCTC
AAAAAAAAAAAAAGAATTTGGAGATGGTTCTGCCACTCTGGTTTCTCTGAAAAACAGGTAATTCCCTGAGCCC
AACCCTGATCCTCAAGGACCTGTAATTGTGTGGTATTTAAATTAATAACATTATTTTATTTTACTTTTTT
TCAAACAGTAAGAATAATATATCAGCAGCATGTATCTGCCAATCATATGTAATAAATTTCTTATTTTGCC

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FIGURE 5420

MGASVSRGRAARVPAPEPEPEEEALDLSQLPPELLLVVLSHVPPRTLLGRCRQVCRGWRALVDGQALWLLILARDH
GATGRALLHLARSCQSPARNARPCPLGRFCARRPIGRNLIRNPCGQEGLRKWMVQHGGDGWVVEENRTTVPGAPS
QTCFVTSFSWCCCKQVLDLEEEGLWPELLDSGRIEICVSDWWGARHDSGCMYRLLVQLLDANQTVLDKFSVAVPDP
IPQWNNNACLHVTHVFSNIKMGVRFVSFEHRGQDTQFWAGHYGARVTNSSVIVRVRLS

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[illegible]

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FIGURE 5422

MFGKRKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLVDPACITSIQPGAPKTIVRGSK
GAKDGALTLLLDDEFENMSVTRSNSLRDSSPPPPARARQENGMPPEEPATTARGGPGKAGSRGRFAGHSEAGGGSGD
RRRAGPEKRPKSSREGSGGPQESSRDKRPLSGPDVGTPQPAGLASGAKLAAGRPFNTYPRADTDHPSRGAQGGEPH
DVAPNGPSAGGLAIPQSSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPACTPAAPAVPGPPGPRSPQREPQRVS
HEQFRAALQLVVDPGDPRS YLDNF IKIGEGSTGIVCIATVRSSGKLVAVKKMDLRKQQRRELLFNEVVIMRDYQH
ENVVEMYNSYLVGDELWVMEFLEGGALTDIVTHTRMNEEQIAAVCLAVLQALSVLHAQGV IHRDIKSDS ILLTH
DGRVKLSDFGFCQVSKEVPRRKS LVGTPYWMAPELISRLPYGPEVDIWSLGIMVIEMVDGEPPYFNEPPLKAMK
MIRDNLPPRLKNLHKVSPSLKGFLDRLLVRDPAQRATAAELLKHPFLAKAGPPASIVPLMRQNRTR

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FIGURE 5423

AGTTGGTGGAACCGGAGCTTCGAGTCCGTCCCCGGTGCTGCCTGCGCGTTACCTGAGTCTCGCTGGAGCTCTTC
TCGCCCCGCCACCTCATCTCAACCCACTTTCCGCGGGGAGCGGCGCCAAGCTGGGCCTTCTCGGATCAGGCGTC
CCCTGAAGTCGGCAGCCCCCTCTGCGTCCCCCTTCGGTCCCCGCTAGGACCCCGTCCGGGCTGCCGTGCGCTCGTC
GCTATGGCGCCACCATCCAGACCCAGGCCAGCGGGAGGATGGCCACAGGCCCAATTCCCACCGGACTCTGCCT
GAGAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCCCCCTTCGACCCCAAGTTCATC
ACCTACCCCTTCGACCAGAACAGGTTTCGTCCAGTACAAAGCCACTTCCTTGGAGAAACAGCACAAACATGACCTC
CTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACCGCATCGACCCCAATGTTCTT
CTAGATCCAGCTGATGAGAACTTTTGGAAGAGGAGATTACGGCCCCCACCAGCTCCAAGAGATCCCAGCAGCAC
GCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACCGTTATGGCATCTCCAATGAG
AAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAATATACAAAGACAGGGATAGC
CAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCCAGAAATCAATCTCACAGCATTACAGCAAACCCCGAGTC
ACACCGGTGGAGGTCAATGCTGTCTTCCAGACTTTAAGATGTGGATCAATCCATGTGCTCAGGTGATCTTTGAC
TCAGACCCAGCCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTCAGGCCATGATTAGGGGCATG
ATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCCCTGCCTGTAGAAGAGACGTTGAAGAAACGAAAGCGGGAC
CAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTCGGGAGTACAACCTGGAACGTG
AAGAACAAAGCTAGCAAGGGCTATGAGGAAAATACTTCTTCATCTTCCGAGAGGGTGACGGGGTTTACTACAAT
GAGTTGGAACACAGGGTCCGCCTTAGTAAGCGCCGGGCCAAGGCTGGGGTTCAGTCAGGCACCAACGCCCTGCTT
GTGGTCAAACATCGGGACATGAATGAGAAGGAAGTGAAGCTCAGGAGGCACGGAAGGCCAGCTAGAAAACCAC
GAACCGGAGGAGGAAGAGGAAGAGGAGATGGAGACAGAAGAGAAAGAAGCTGGGGGCTCAGATGAGGAGCAGGAG
AAGGGCAGCAGCAGTGAGAAGGAGGGCAGTGAAGATGAGCACTCGGGCAGCGAGAGTGAACGGGAGGAAGGTGAC
AGGGACGAGGCCAGTGACAAGAGTGGCAGTGGTGAGGACGAGAGCA~~CG~~GAGGATGAGGCCCGGGCTGCCCGTGAC
AAAGAGGAGATCTTTGGCAGTGATGCTGATTCTGAGGACGATGCCGACTCTGATGATGAGGACAGAGGACAGGCC
CAAGGTGGCAGTGACAATGATTCAGACAGCGGCAGCAATGGGGGTGGCCAGCGGAGCCGGAGCCACAGCCGCAGC
GCCAGTCCCTTCCCCAGTGCCAGCGAGCACTCGGCCAGGAGGATGGCAGTGAAGCTGCAGCTTCTGATTCCAGT
GAAGCTGATAGTGACAGTGACTGAGTCCCAGGGCATTACGGGCTGGTTCAGACACCATTATTGTGAGCAGCAAAG
CACTTTTCTAGTGGTCTGTTTGTGAGCCTTTCACCTGTTTGTTC~~CC~~CAACCCCAACCTTTCCTGTTAATAAAGT
CAACTTCTCTTTA

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FIGURE 5424

MAPTIQTQAQREDGHRPNSHRTLPERSGVVCrvKYCNSLPDIPFDPKFITYPFDQNRfVQYKATSLEKQHKHDL
TEPDLGVTIDLINPDTYRIDPNVLLDPADEKLLEEEIQAPTSSKRSQQHAKVVPWMrKTEYISTEFNRYGISNEK
PEVKIGVSVKQQFTEEEIYKDRDSQITAIEKTFEDAQKSISQHYskPRVTPVEVMPVFPDFKMWINPCAQVIFDS
DPAPKDTSGAAALEMMSQAMIRGMMDEEGNQFVAYFLPVEETLKKRKRdQEEEMDYAPDDVYDYKIAREYNWNVK
NKASKGYEENYFFIFREGDGVYYNELETRVRLSKRRAKAGVQSGTNALLVVKHRDMNEKELEAQEARKAQLENHE
PEEEEEEMETEEKEAGGSDEEQEKGSSEKEGSEDEHSGSESEREEGDRDEASDKSGSGEDESEDEARAARDK
EEIFGSDADSEDDADSDDEDRGQAQGGSDNDSDSGSGNGGQSRSHSRsasPFPsgSEHSAQEDGSEAAASDSSE
ADSDSD

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FIGURE 5425

AGGCCCAGCGGGAGGATGGCCACAGGTCTGGAGTGGTCTGCCGAGTCAAGTACTGCAATAGCCTCCCTGATATCC
CCTTCGACCCCAAGTTCATCACCTACCCCTTCGACCAGAACAGGTTCGTCCAGTACAAAGCCACTTCCTTGGAGA
AACAGCACAAACATGACCTCCTGACTGAGCCAGACCTGGGGGTCACCATCGATCTCATCAATCCTGACACCTACC
GCATCGACCCCAATGTTCTTCTAGATCCAGCTGATGAGAACTTTTGGAAAGAGGAGATTCAGGCCCCCACCAGCT
CCAAGAGATCCCAGCAGCACGCGAAGGTGGTGCCATGGATGCGAAAGACAGAGTACATCTCCACTGAGTTCAACC
GTTATGGCATCTCCAATGAGAAGCCTGAGGTCAAGATTGGGGTTTCTGTGAAGCAGCAGTTTACCGAGGAAGAAA
TATACAAAGACAGGGATAGCCAGATCACAGCCATTGAGAAGACTTTTGAGGATGCCAGAAATCAATCTCACAGC
ATTACAGCAAACCCCGAGTCACACCGGTGGAGGTGATGCCTGTCTTCCCAGACTTTAAGATGTGGATCAATCCAT
GTGCTCAGGTGATCTTTGACTCAGACCCAGCCCCAAGGACACGAGTGGTGCAGCTGCGTTGGAGATGATGTCTC
AGGCCATGATTAGGGGCATGATGGATGAGGAAGGGAACCAAGTTTGTGGCCTATTTCTGCTGTAGAAGAGACGT
TGAAGAAACGAAAGCGGGACCAGGAGGAGGAGATGGACTATGCACCAGATGATGTGTATGACTACAAAATTGCTC
GGGAGTACAACGTGGAACGTGAAGAACAAAGCTAGCAAGGGCTATGAGGAAAATAATACTTCATCTTC

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FIGURE 5426

TTTTCCGGTTGCGGCGCCGCGCGGTGAGGTTGTCTAGTCCACGCTCGGAGCCATGCCGTCCAAGGGCCCGCTGCA
GTCTGTGCAGGTCTTCGGACGCAAGAAGACAGCGACAGCTGTGGCGCACTGCAAAACGCGGCAATGGTCTCATCAA
GGTGAACGGGCGGCCCCCTGGAGATGATTGAGCCGCGCACGCTACAGTACAAGCTGCTGGAGCCAGTTCTGCTTCT
CGGCAAGGAGCGATTTGCTGGTGTAGACATCCGTGTCCGTGTAAAGGGTGGTGGTCACGTGGCCCAGATTTATGC
TATCCGTCAGTCCATCTCCAAAGCCCTGGTGGCCTATTACCAGAAATATGTGGATGAGGCTTCCAAGAAGGAGAT
CAAAGACATCCTCATCCAGTATGACCGGACCCTGCTGGTAGCTGACCCTCGTCGCTGCGAGTCCAAAAAGTTTGG
AGGCCCTGGTGCCCGCGCTCGCTACCAGAAATCCTACCGATAAGCCCATCGTGACTCAAAACTCACTTGTATAAT
AAACAGTTTTTGAGGGATTTTAAAGTTTCAAAAAAAAAAAAAAA

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FIGURE 5427

MPSKGPLQSVQVFGRKKTATAVAHCKRGNGLIKVNGRPLEMIEPRTLQYKLLEPVLLL GKERFAGVDIRVRVKGG
GHVAQIYAIRQSISKALVAYYQKYVDEASKKEIKDILIQYDRTLLVADPRRCESKKFGGPGARARYQKSYR

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FIGURE 5428A

AGAGAACAGATTCCGAAACTGGGGAGGTCTAGCATGTGGCGTAGGAGGGGGTCTCACTCCGCTTCGCGATTGCC
AAAACGAGCCTGCCGGAAGCGCCCTAAGGGGTTTTCTTCTCCAGGGAACAGCGGGGAAACTGAGGCTCGGGGT
GGAGCGCAGGATTGTGGGACGCGCCAAGACTGCTGTCTTTCCAGCAGCAGCGGAAGATGTCGGACAGCGAGGAC
AGCAACTTTTCCGAGGAGGAGGACAGCGAGCGCAGCAGTGACGGCGAGGAGGCCGAGGTAGACGAAGAGCGGGCGG
AGTGCAGCGGGCAGTGAGAAAGAAGAAGAGCCTGAGGACGAAGAGGAGGAGGAAGAGGAGGAGGAATATGATGAG
GAAGAGGAGGAAGAAGATGATGACCGACCCCCCAAGAAACCCCGCCATGGAGGCTTCATTCTGGACGAGGCTGAT
GTTGACGATGAGTATGAGGACGAGGACCAGTGGGAGGATGGAGCAGAGGACATTCTAGAGAAAGAAGAGATTGAA
GCCTCCAATATCGATAATGTTGTCTGGATGAAGATCGTTCTGGGGCTCGCCGCTGCAAAACCTCTGGAGGGAC
CAGCGAGAAGAAGAACTGGGCGAGTATTACATGAAGAAATACGCCAAGTCATCTGTGGGAGAGACGGTGTATGGA
GGATCTGATGAGCTCTCAGACGACATCAGCCAGCAGCAGCTGCTCCAGGAGTCAAGGATCCCAATCTGTGGACT
GTCAAATGTAAGATTGGGGAGGAACGGGGCCACGGCCATTTCCTTGATGCGCAAGTTTCATTGCTACCAAGTTCACA
GACACGCCCCCTGCAGATCAAGTCAGTAGTGGCACCAGAGCATGTGAAGGGCTACATCTACGTGGAGGCTACAAG
CAGACCCACGTGAAGCAGGCCATTGAGGGGGTGGGCAACCTGCGGCTTGCTACTGGAACCAGCAGATGGTGCCC
ATCAAGGAGATGACAGACGTGCTCAAAGTGGTGAAGGAGGTGGCCAACTGAAACCAAAGTCTGGGTCCGCTC
AAGCGGGGCATCTACAAGGATGACATTGCTCAGGTGGACTACGTGGAGCCCAGCCAGAACACCATCTCCCTGAAG
ATGATCCCACGCATCGACTACGATCGCATCAAGGCCCGCATGAGCTTGAAAGACTGGTTTGCCAAAAGGAAGAAG
TTTAAGCGGCTCCACAGAGGCTGTTTGATGCTGAGAAGATCAGGTCCCTGGGGGGTGATGTTGCCTCTGATGGT
GACTTCTCATCTTTGAGGGGAACCGTTACAGCCGGAAGGGCTTTCTGTTCAAGAGCTTCGCCATGTCTGCTGTG
ATCACGGAGGGTGTGAAGCCAACACTCTCTGAGCTGGAAAAGTTTGAGGACCAGCCAGAGGGCATTGACCTGGAG
GTGGTGACTGAGAGCACAGGGAAGGAGCGGGAGCACAACTTCCAACCTGGGGACAACGTGGAGGTCTGTGAGGGT
GAGCTCATCAACCTGCAGGGCAAGATCCTCAGCGTGATGGCAACAAGATCACCATCATGCCAAGCATGAGGAC
CTCAAGGACATGTTGGAGTTCCAGCCCAGGAACCTTAGAAAATACTTCAAGATGGGGGACCAGTGAAGGTGATT
GCTGGCCGATTTCGAGGGCGACACAGGCCTCATTGTGCGGGTGGAGGAGAATTCGTTATCCTGTCTCTGACCTC
ACCATGCATGAGCTGAAGGTGCTCCCCCGGGACCTGCAGCTGCTCAGAGACAGCATCAGGTGTGGATGTTGGG
GGCCGATGAATGGGGCGAGCTGGTGCAGCTGGATGCCAGACTGTGGGTGTCATCGTGCGACTAGAACGGGAG
ACCTTCCAGGTGCTGAACATGTACGGGAAGGTGGTGACTGTGACACATCAGGCTGTGACCCGGAAGGACAAC
CGCTTTGCTGTGGCCTTGACTCAGAGCAGAACAACATCCATGTGAAAGACATCGTTAAGGTCAATTGATGGCCCC
CACTCAGGCCGAGAAGGGGAGATTGCCATCTCTTCCGAAGCTTCGCTTCTTACATTGCAAGAACTGGTGGAG
AACGGGGGCATGTTTGTCTGCAAGACCCGCCACCTGGTGCTGGCTGGGGGCTCAAAGCCCCGTGATGTGACCAAC
TTCACCGTGGGTGGCTTTGCGCCTATGAGTCCCCGGATCAGCAGCCCCATGCACCCAGTGCTGGAGGTGACGCT
GGCGGCTTTGGTAGCCAGGTGGCGGCAGTGGTGGCATGAGCAGGGGCCGGGGCCGGAGGGACAACGAACCTCATC
GGCCAGACCGTGCGCATCTCCAGGGGCCCTACAAAGGCTACATCGGTGTGGTGAAGATGCCACAGAGTCCACG
GCCCCGTGTGGAGCTGCACTCCACCTGCCAGACCATCTCTGTGGACCGTCAGCGGCTCACCACGGTGGGCTCACGG
CGCCCCGGGCGCATGACCTCGACCTATGGGAGGACGCCCCATGTATGGCTCCCAGACGCCCATGTATGGCTCTGGC
TCCCGAACACCCATGTACGGCTCACAGACACCCCTCCAGGATGGTAGCCGCACCCACACTACGGCTCACAGACG
CCCCTGCATGATGGCAGCCGCACTCCTGCCAGAGTGGGGCTGGGACCCCAACAACCCCAACACGCCGTACGG
GCTGAGGAAGAATATGAGTATGCTTTGATGATGAGCCACCCCGTCCCCGCAGGCCATGGGGGAACCCCAAT
CCCCAACAACCTGGCTACCCAGACCCCTCGTCCCCACAGGTCAACCCACAATAACAACCCGCAGACGCCAGGGACG
CCGGCCATGTACAACACAGACAGTTCTCTCCCTATGCTGCCCCCTCCCCACAAGGTTCTTACCAGCCCAGCCCC
AGCCCCAGAGCTACCACCAGGTGGCGCCAAGCCAGCAGGCTACCAGAATACCCACTCCCCAGCCAGCTACCAC
CCTACACCGTCGCCCCATGGCCTATCAGGCTAGCCCCAGCCGAGCCCCGTTGGCTACAGTCTATGACACCTGGA
GCTCCCTCCCCTGGTGGCTACAACCCACACACGCCAGGCTCAGGCATCGAGCAGAACTCCAGCGACTGGGTAACC
ACTGACATTAGGTGAAGGTGCGGGACACCTACCTGGATACACAGGTGGTGGGACAGACAGGTGTCATCCGCAGT
GTCACGGGGGGCATGTGCTCTGTGTACCTGAAGGACAGTGAGAAGGTTGTCAGCATTTCAGTGAGCACCTGGAG
CCTATCACCCCCACCAAGAACAACAAGGTGAAAGTGATCCTGGGCGAGGATCGGGAAGCCACGGGCGTCTACTG
AGCATTGATGGTGAGGATGGCATTGTCCGTATGGACCTTGATGAGCAGCTCAAGATCCTCAACCTCCGCTTCCTG
GGGAAGCTCCTGGAAGCCTGAAGCAGGACGGGCGGTGGACTTCGTGCGATGAAGAGTGATCCTCCTCCTTCCC
TGGCCCTTGGCTGTGACACAAGATCCTCCTGCAGGGCTAGGCGGATTGTTCTGGATTTCCTTTTGTTCCTTT

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FIGURE 5428B

TAGTTTTCCATCTTTTCCCTCCCTGGTGCTCATTGGAATCTGAGTAGAGTCTGGGGGAGGGTCCCCACCTTCCTG
TACCTCCTCCCCACAGCTTGCTTTTGTTGTACCGTCTTCAATAAAAAGAAGCTGTTTGGTCTAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 5429

MSDSEDSNFSSEEDSERSSDGEEAEVDEERRSAAGSEKEEPEDEEEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGF
ILDEADVDDYEDEDQWEDGAEDILEKEEIEASNIDNVLDDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSV
GETVYGGSDLSDDITQQQLPGVKDPNLWTVKCKIGEERATAISLMRKFIAEQFTDTPLQIKSVVAPEHVKGYYI
YVEAYKQTHVKQAIEGVGNLRLGYWNQQMVPIKEMTDVLKVVEVANLKP KSWVRLKRGYKDDIAQVDYVEPSQ
NTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKS
FAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTSTGKERHNFQPGDNVEVCEGELINLQGKILSVDGNKITI
MPKHEDLKDMLFPAQELRKYFKMGDHVKVIAGRFEQDGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETA
SGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFVAVALDSEQNNIHVKDIV
KVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHP
SAGGQRGFGSPGGSGGMSRGRGRDNEIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRL
TTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLODGSRTPHYGSQTPLDHGSRTPAQSGAWDPNN
PNTPSRAEEYEFYAFDDEPTPSPQAYGGTPNPQTPGYDPDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQG
SYQPSPPQSYHQVAPSPAGYQNTHSPASYHPTSPMAYQASPSPPVGYSPMTPGAPSPGGYNPHTPGSGIEQN
SSDWVTTDIQVKVRDITYLDTQVVGQTVIRSVTGMCSVYLKDSEKVVSISSHELEPITPTKNNKVKVILGEDRE
ATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA

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FIGURE 5430

CTCAGAGGCTGGAGGGATCCTCCGTATGCTGAACGCTGGTCCCCTGGGCCCCCTTTATTTCTTTCTCTATACTTT
GTTTCTGTGTCTTTTTCTCTTCCAAAGTCTCTCGTTCCACCTAACGAGAAACACCCACAGGTGTGGAGGGGCAAC
CCATCCCTTCAGACAATTGGGAGGTGAGGGCCGATTGCCTTACACGGTGAGACAAGCGGCCTGACTCGTGACTAT
TTTTTTGGACAAATCAGGCAGCCACTGACTCCCTTCATTATGGCCTCAGCTTTATCTCTGGGCAATAAGTGTGAT
CCCTTCCTTTCGCTGCGTCTTTGTCAGGGGCGGTGGCGCTCTGCAAGGCCCAAGGGGGCGTGGTCCAGATGACTTT
GAATCCCAGTTGTGCCCCCAGGGTCAGCCAGGAGACTAGTCAGAAGCAAACGCGCCTGCGGCAATCCGCCCCGAT
GCCTTTGGTCTCTCTCGGGCTTCCGTCCACCCGCCCTCCCCGCGTTTCCATTGGCTGTAGCTCCGGCCCCGGGG
CGGGCGAAGAGGGAGCGAGTGGGCGGGGCGCGTGGCGTCTCAGCGCAAGATGGCGGCCTCGGCAGCGGTGTTCTCG
CGCTTGCGAAGCGGGCTCCGGCTCGGCTCGCGGGGACTGTGCACGAGGTTGGCGACGCCGCCCGCCGGGCCCCA
GATCAGGCCCGAGAGATCGGGAGCCGCGGGAGCACTAAGGCGCAAGGGCCACAGCAGCAGCCGGGGCTCAGAGGGT
CCCAGCTATGCCAAAAAGTTGCGCTCTGGCTTGCTGGGCTGCTTGGAGCTGGTGGGACTGTGAGCGTCTCTAT
ATCTTTGGAAACAACCCGGTGGACGAAAATGGTGCCAAGATTCTGTAGATTGACAAATGATCCAATTCTGGTA
CAGCAGTTGCGCCGGACATACAAATATTTCAAAGATTATAGACAGATGATCATCGAGCCCAACAGCCCTTGCCCTT
CTCCAGACCTCTGTCAGGAACCGTACTACCAGCCACCTTACACGCTCGTTTTGGAGCTCACCGGCGTCTCTTG
CATCTGAGTGGTCTGCTGGCCACTGGCTGGAGGTTTAAGAAGCGCCAGGCATCGAGACCTTGTTCCAGCAGCTT
GCCCCTTTATATGAAATTGTCATCTTTACGTGAGAGACTGGCATGACTGCGTTTCCACTCATTGATAGTGTGGAC
CCCCATGGCTTCATCTCTTACCGCCTATTCCGGGACGCCACAAGATACATGGATGGACACCATGTAAAGGATATT
TCATGTCTGAATCGGGACCCAGCTCGAGTAGTAGTTGTGGACTGCAAGAAGGAAGCCTTCCGCCTGCAGCCCTAT
AACGGCGTTGCCCTGCGGCCCTGGGACGGCAACTCTGATGACCGGGTCTTGTGGATCTGTCTGCCTTCCTCAAG
ACCATTGCACTGAATGGTGTGGAGGACGTGCGAACCCTGCTGGAGCACTATGCCCTGGAGGATGACCCGCTGGCG
GCTTTCAAACAGCGGCAAAGCCGGCTAGAGCAGGAGGAGCAGCAGCGCCTGGCCGAGCTCTCCAAGTCCAACAAG
CAGAACCTCTTCTTGGCTCCCTACCCAGCCGCTTGTGGCTCGCTCCAAACAGCCCTGAACTCTGGGCCTCCTC
AAACTCAGTGCCTGGGTCCAGGGCCCCAGTGCTTCCAGACCAAGACTTGGGCCACCACTTGTTCCAATAAAGTACA
TCCAGACGCCACACCTGCTGTGTCCCGAGAGTCTCCAGATGGGGGCATCAGGGTGAGGTCCGGGACTCTTGGGT
CATCGTCCACAGTGGCTGATCGGCTGCCAAGCACAGTGGGGTGCTTTGTTGGATCAGAGCAGATTTTCAACC
TGGTCTCGGAATCTAAAAACCCTCGCTGTGTCTTCTGTGTGTTGCGTGATCTGTGAAAAATACATCTCCCTCTG
ACCACAGACTCCTCATCTGTGGAGAAGGGAAGAGAGGATGGCACTTGGCTTTAAAGACAGGTAGCTGCCAGGCTA
CTGTGGAGAGAATGTGTTATGGGCCTAGTGGGCCTCTGGTGGACCAGAGATTACCCCTCTCAACAGGCCAGCTGC
TGGTTGGCTCCAGCCAGTGTGGCCCTGGGGTAAAGGGGGCCTGGAGTTGCTTGACACGCCAGTTGTTCAA

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FIGURE 5431

MASALS LGNKCDPFLRCVLCRGGGALQGPRGRGPDDFESQLSPPGSARRLVRSKRACGNPPDAFGLSRASVHPPL
PRVSI GCSSGPGRKRERVGGAAWRQRKMAASA AVFSRLRSGRLGSRGLCTRLATPPRRAPDQAAEIGSRGSK
AQGPQQPGSEGPSYAKKVALWLAGLLGAGGT VSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDY
RQMIIEPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKRPGIETLFQQLAPLYEIVIFTSET
GMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRDPARVVVDCKKEAFRLQPYNGVALRPWDGNSD
DRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRQSRLEQEEQQLAELSKSNKQNLFLGSLTSRLW
PRSKQP

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FIGURE 5432

GAAGGCCATGGTCTCCCCACGGATGTCCGGGCTCCTCTCCCAGACTGTGATCCTAGCGCTCATTTCCTCCCCCA
GACACGGCCCCGTGGCGTCTTCGAGCTGCAGATCCACTCTTTCGGGCCGGGTCCAGGCCCTGGGGCCCCGCGGTC
CCCCTGACGCGCCCGGCTCCCCTGCCGCTCTTCTTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAGGAGGCCGC
CGAGTCCCCGTGCGCCCTGGGCGCGGCGCTGAGTGCGCGCGGACCGGTCTACACCGAGCAGCCCGGAGCGCCCCG
GCCTGATCTCCCCTGCCCCACGGGCTCTTGCAAGTGCCCTTCCGGGACGCCTGGCCTGGCACCTTCTCTTTTCAT
CATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGGAGCCTGCTGGCGCGCGTGGCTGG
CAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCCGGGACATTAGCGCGCAGGCGCCTGGGAGCTGCGCTTCTC
GTACCGCGCGCGCTGCGAGCCGCTGCCGTCCGGACCGCGTGACGCGCCTCTGCCGTCCGCGCAGCGCCCCCTC
GCGGTGCGGTCCGGGACTGCGCCCCTGCGCACCCTCGAGGACGAATGTGAGGCGCGCTGGTGTGCCGAGCAGG
CTGCAGCCCTGAGCATGGCTTCTGTGAACAGCCCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTG
CACGGTCCCTGTCTCCACCAGCAGTGCCTCAGCCCCAGGGGCCCGTCTCTGCTACCAACGGATGCCTTGTCCC
TGGGCTTGGGCCCTGTGACGGGAACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCCAGGTCTTTGAATG
CACCTGCCCCGCGTGGGTTCTACGGGCTGCGGTGTGAGGTGAGCGGGGTGACATGTGCAGATGGACCCTGCTTCAA
CGGCGGCTTGTGTGTCGGGGGTGCAGACCCTGACTCTGCCTACATCTGCCACTGCCCACCTGGTTCCTCAAGGCTC
CAACTGTGAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCA
CGCCCTGCGCTGCCGCTGCCGCGCCGGCTTCGCGGGTCTCGCTGCGAGCACGACCTGGACGACTGCGCGGGCCG
CGCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGCGCGCACCGCTGCTCCTGCGCGCTGGGCTTCGGCGG
CCGCGACTGCCGCGAGCGCGGACCCGTGCGCCGCGCGCCCCCTGTGCTCACGGCGGCGCGCTGCTACGCCCACTT
CTCCGGCTCGTCTGCGCTTGGCTTCCCGCTACATGGGAGCGCGGTGTGAGTTCCAGTGCACCCCGACGGCGC
AAGCGCCTTGGCCGCGGCCCCGCCGGGCTCAGGCCCCGGGACCCCTCAGCGCTACCTTTTGCTTCCGGCTCTGGG
ACTGCTCGTGGCCGCGGGCTGGCCGGCGCTGCGCTCTTGTGCTGCCACGTGCGCCGCGCTGGCCACTCCAGGA
TGCTGGGTCTCGCTTGGCTGGCTGGGACCCCGGAGCCGTGAGTCCACGCACTCCCGGATGCACTCAACAACCTAAG
GACGCAGGAGGGTTCCGGGGATGGTCCGAGCTCGTCCGTAGATTGGAATCGCCCTGAAGATGTAGACCTCAAGG
GATTTATGTCATATCTGCTCCTTCCATCTACGCTCGGGAGGTAGCGACGCCCCCTTTTCCCCCGCTACACACTGG
GCGCGCTGGGCAGAGGCAGCACCTGCTTTTTCCCTACCTTCCCTCGATTCTGTCCGTGAAATGAATTGGGTAGAG
TCTCTGGAAGTTTTTAAGCCATTTTCAGTTCTAACTTACTTTTCATCCTATTTTGCATCCCTCTTATCGTTTTGA
GCTACCTGCCATCTTCTCTT

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FIGURE 5433

MVSPRMSGLLSQTIVILALIFLPQTRPAGVFELQIHSFGPGPGGAPRSPCSARLPCLFFRVCLKPGLSEEAES
PCALGAALSARGPVYTEQPGAPAPDLPLEPDGLLQVPFRDAWPGTFSFIIETWREELGDQIGGPAWSLLARVAGRR
RLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRGPGRLPCAPLEDECEAPLVCRA GCS
PEHGFCEQPGECRCLEGWTGPLCTVPVSTSSCLSPRGFPSSATTGCLVPGPGPCDGNPCANGGSCSETPRSFECTC
PRGFYGLRCEVSGVTCADGPCFNGLCVGGADPD SAYICHCPPGFQGSNCEKRVDRCSLQPCRNGGLCLDLGHAL
RCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSCALGFGRDCCRERADPCAARPCAHGGRCYAHFSG
LVCACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQRYLLP PALGLLVAAGVAGAALLLVHVRRRGHSQDAG
SRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSSV DWNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRA
GQRQHLLFPYPSSILSVK

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FIGURE 5434

GGGATGGGGGCGGAGTCCAGGGCGTGGGGGGGCGCGTTTGTGTGGTCGCCATTTTGCTGGTTGCATTACTGGGT
AATCGGGGGCCCTGGCTTGCCGCGTCCGCCGGATACCCCTCAGCCAGTGGGCAGGTCTGAGCTCGGGCTCCCCGAGC
AGTTTGAGTCCCCCTTGCCGCTCCTTCAGGTCTCAGCGCGGTGGCAGCCGAGGTGCAGGATGCAAGAAGGCGCC
CCCCGGCCGGGCTCCCGCTCCAGGCCTCGCTCCCCCTGCGGCCCTCTGAGCCCACCATGGCCCGTCCCACCGGGCCA
TGGTCCCTTCTCTGGCTTCCAGGGCCCCAGGAGCACACGCAGGTATTGCTGATGTGCGGCTACTGCCTCGGAG
GCTGCCCCCTGGCCTTCCGGGATGCAACCTCAGCCCCGCTGCGTAAGCTCTCTGTGGACCTCATCAAGACCTACAA
GCACATCAATGAGGTATACTATGCGAAGAAGAAGCGGCGGGGCCAGCAGGCGCCACCCCAGGATTGAGCAACAA
GAAGGAGAAGAAGGTCTGAACCATGGTTATGATGACGACAACCATGACTACATCGTGCGCAGTGGCGAGCGCTG
GCTGGAGCGCTACGAAATTGACTCGCTCATTGGCAAAGGCTCCTTTGGCCAGGTGGTGAAAGCCTATGATCATCA
GACCCAGGAGCTTGTGGCCATCAAGATCATCAAGAACAAAAAGGCTTTCTGAACCAGGCCCAGATTGAGCTGCG
GCTGCTGGAGCTGATGAACCAGCATGACACGGAGATGAAGTACTATATAGTACACCTGAAGCGGCACTTCATGTT
CCGGAACACCTGTGCCTGGTATTTGAGCTGCTGTCTTACAACCTGTACGACCTCCTGCGCAACACCCACTTCCG
CGGCGTCTCGCTGAACCTGACCCGGAAGCTGGCGCAGCAGCTCTGCACGGCACTGCTCTTTCTGGCCACGCCTGA
GCTCAGCATATTCACTGCGACCTCAAGCCCGAAAACATCTTGCTGTGCAACCCCAAGCGCAGCGCCATCAAGAT
TGTGGACTTCGGCAGCTCCTGCCAGCTTGGCCAGAGGATCTACCAGTATATCCAGAGCCGCTTCTACCGCTCACC
TGAGGTGCTCCTGGGCACACCCACGACCTGGCCATTGACATGTGGTCCCTGGGCTGCATCCTTGTGGAGATGCA
CACCGGAGAGCCCTCTTCAGTGGCTCCAATGAGGTGACCCAGATGAACCGCATTGTGGAGGTGCTGGGCATCCC
ACCGGCCGCCATGCTGGACCAGGCGGCCAAGGCTCGCAAGTACTTTGAACGGCTGCCTGGGGGTGGCTGGACCT
ACGAAGGACGAAAGAACTCAGGAAGGATTACCAGGGCCCCGGGACACGGCGGCTGCAGGAGGTGCTGGGCGTGCA
GACGGGCGGGCCCGGGGCGGCGGGGAGCCGGGCCACAGCCCCGCGACTACCTCCGCTTCCAGGACCT
GGTGTGCGCATGCTGGAGTATGAGCCCGCCGCCCGCATCAGCCCCCTGGGGGCTCTGCAGCACGGCTTCTTCCG
CCGCACGGCCGACGAGGCCACCAACACGGGCCCGGCAGGCAGCAGTGCTCCACCTCGCCCGCGCCCCCTCGACAC
CTGCCCCCTCTTCCAGCACCGCCAGCTCCATCTCCAGTTCTGGAGGCTCCAGTGGCTCCTCCAGTGACAACCGGAC
CTACCGCTACAGCAACCGATATTGTGGGGGCCCTGGGCCCCCTATCACAGACTGTGAGATGAACAGCCCCCAGGT
CCCACCTCCAGCCGCTGCGGCCCTGGGCAGGGGTGATGTGCCCCACAAGACACATCAAGCCCCCTGCCTCTGC
CTCGTCACTGCCTGGGACCGGGGCCAGTTACCCCCCAGCCCCGATACCTTGGTCGTCCCCCATCACCACCTC
ACCACACCCCCGAGCTGATGGATGTGAGCCTGGTGGCGGCCCTGCTGACTGCTCCCCACCTCACCAGCGCC
TGCCCCCAGCACCCGGCTGCCTCAGCCCTCCGGACTCGGATGACTGGAGGTGCTCCACCCCTCCCGCCTCCTGA
TGACCTGCCACTCTGGGGCCTCACCTGGGCCTCCGTGTTGTACCCCAGAGCACAGCAGCCAGCTCGTGACCCCTG
CCCCCTCCCTGGGGCCCCCTCCTGAAGCCATACCCTCCCCCATCTGGGGGCCCTGGGCTCCCATCCTCATCTCTCT
CCTTGACTGGAATTGCTGCTACCCAGCTGGGGTGGGTGAGGCTGCACTGATTGGGGCCTGGGGCAGGGGGGTCA
AGGAGAGGGTTTTTGGCCGCTCCCTCCCCACTAAGGACTGGACCCTTGGGGCCCCCTCCCCCTTTTTTCTATTTA
TTGTACCAAAGACAGTGGTGGTCCGTTGGAGGGAAGACCCCCCTCACCACAGGACCTAGGAGGGGTGGGGC
AGGTAGGGGGAGATGGCCTTGCTCCTCCTCGCTGTACCCCCAGTAAAGAGCTTTCTCACAAAAA

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FIGURE 5435

MAVPPGHGPFSGFPGPQEHTQVLPDVRLLPRLPLAFRDATSAPLRKLSVDLIKTYKHINEVYYAKKKRRAQQAP
PQDSSNKKEKKVLNHGYDDDNHDYIVRSGERWLERYEIDSLIGKGSFGQVVKAYDHQTQELVAIKI IKNKKAFLN
QAQIELRLLELMNQHDTEMKYYIVHLKRHFMRNHLCLVFELLSYNLYDLLRNTHFRGVSLNLTRKLAQQQLCTAL
LFLATPELSIIHCDLKPENILLCNPKRSAIKIVDFGSSCQLGQRIYQYIQSRFYRSPEVLLGTPYDLAIDMWSLG
CILVEMHTGEPLFSGSNEVDQMNRIVEVLGIPPAAMLDQAPKARKYFERLPGGGWTLLRRTKELRKDYQGPGRRL
QEV LGVQTGGPGGRRAGEPGHSPADYLRFDLVLRMLEYEPAAARISPLGALQHGFRRRTADEATNTGPAGSSAST
SPAPLDTCPPSSSTASSISSSGSSGSSSDNRTYRYSNRYCGGPGPPITDCEMNSPQVPPSQPLRPWAGGDVPHKT
HQAPASASSLPGTGAQLPPQPRYLGRPPSPSPPPPELMDVSLVGGPADCSPPHPAPAPQHPAASALRTRMTGGR
PPLPPDDPATLGPHLGRLGV PQSTAASS

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FIGURE 5436

GGATCCGGCAACGAAGGTACCATGGCCGGACTCCGGAGCCGCACAAACCAGGGCTCGCCATGAAGCCAGGATTCA
GTCCCCGTGGGGGTGGCTTTGGCGGCCGAGGGGGCTTTGGTGACCGTGTTGGTTCGTGGAGGCCGAGGGGGCTTTG
GCGGGGGCCGAGGTCGAGGCGGAGGCTTTAGAGGTCGTGGACGAGGAGGAGGTGGAGGCCGGCGGGCGGTGGAG
GAGGAGGAAGAGGTGGTGGAGGCTTCCATTCTGGTGGCAACCGGGGTCGTGGTGGGGAGGAAAAAGAGGAAACC
AGTCGGGGAAGAATGTGATGGTGGAGCCGCATCGGCATGAGGGTGTCTTCATTTGTGAGGAAAGGAAGATGCAC
TGGTCACCAAGAACCTGGTCCCTGGGGAATCAGTTTATGGAGAGAAGAGAGTCTCGATTTCGGAAGGAGATGACA
AAATTGAGTACCGAGCCTGGAACCCCTTCCGCTCCAAGCTAGCAGCAGCAATCCTGGGTGGTGTGGACCAGATCC
ACATCAAACCGGGGGCTAAGGTTCTCTACCTCGGGGCTGCCTCGGGCACCACGGTCTCCCATGTCTCTGACATCG
TTGGTCCGGATGGTCTAGTCTATGCAGTCGAGTTCTCCACCGCTCTGGCCGTGACCTCATTAACTTGGCCAAGA
AGAGGACCAACATCATTCCTGTGATCGAGGATGCTCGACACCCACACAAATACCGCATGCTCATCGCAATGGTGG
ATGTGATCTTTGCTGATGTGGCCAGCCAGACCAGACCCGGATTGTGGCCCTGAATGCCACACCTTCCTGCGTA
ATGGAGGACACTTTGTGATTTCCATTAAAGGCCAACTGCATTGACTCCACAGCCTCAGCCGAGGCCGTGTTTGCCT
CCGAAGTGAAAAAGATGCAACAGGAGAACATGAAGCCGAGGAGCAGTTGACCCTTGAGCCATATGAAAGAGACC
ATGCCGTGGTCGTGGGAGTGACAGGCCACCCCCAAGGTGAAGAACTTGAAGTTGAGCGCTGTGAGGATTGCGAG
AGATGTGTGTTGATACTGTTGCACGTGTGTTTTTCTATTAAAGACTCATCCGTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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MKPGFSPRGGGFGGRGGFGDRGGRGGRGGFGGGRGRGGGFRRGRGGGGGGGGGGGGGGGGGGGGHSGGNRGRGRG
GKRGNQSGKNVMVEPHRHGVFI CRGKEDALVTKNLVPGESVYGEKRSISEGDDKIEYRAWNPF RSKLAAILG
GVDQIHIKP GAKVLYLG AASGTTVSHVSDIVGPDLVYAVEF SHRSGRD LINLAKKRTNIIPVIEDARHPHKYRM
LIAMVDVIFADVAQP DQTRIVALNAHTFLRN GGHFVISIKANCIDSTASAEAVFASEVKMMQQENMKPQEQLTLE
PYERDHAVVVGVYRPPPKVKN

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FIGURE 5438

CAACGGGGGCATCCACTACATCACCCCTTGATGGCCGTGTCTACGACCTGCATGGCTCCTGCTCCTATGTCTTGGC
CCAAGTCTGCCACCCAAAGCCTGGGGACGAGGACTTTTCCATCGTGCTTGAGAAGAATGCAGCTGGAGATCTCCA
ACGCCTCCTGGTTACTGTGGCTGGCCAGGTTGTGAGCCTAGCTCAGGGGCAGCAGGTCACCGTGGACGGCGAGGC
TGTGGCCCTGCCTGTGGCTGTGGGCCGCGTGGGGGTGACCGCCGAGGGCCGAAACATGGTTCTGCAGACGACCAA
GGGGCTGCGGCTTCTCTTTGATGGCGATGCCACCTCCTCATGTCCATCCCCAGCCCCCTCCGTGGACGGCTCTG
TGGCCTCTGTGGAACTTCAATGGCAACTGGAGTGACGACTTTGTCTGCCCCAATGGCTCAGCAGCGTCCAGTGT
GGAGACCTTCGGGGCTGCATGGCGGGCGCCCGGCTCCTCCAAGGGCTGTGGCGAGGGCTGCGGGCCCCAAGGCTG
CCCAGTGTGCTTGGCAGAGGAGACTGCACCCTATGAGAGCAACGAGGCTGCGGGCAGCTCCGGAACCCCCAGGG
CCCCCTTCGCGACCTGCCAGGCGGTGCTGAGTCCCTCTGAGTACTTCCGCCAATGCGTATACGACCTGTGCGCGCA
AAAGGGTGACAAAGCCTTCTGTGCCGCAGCCTGGCAGCCTACACGGCGGCGCTGTCAGGCAGCTGGCGTGGCCGT
GAAGCCCTGGAGGACAGACAGCTTCTGCCCCGCTCCATTGCCCCGCCACAGCCACTACTCCATCTGCACTCGCAC
CTGCCAGGGATCCTGTGCGGCTCTCTCCGGCCTCACGGGCTGCACCACCCGCTGTTTTGAGGGCTGTGAGTGCGA
CGACCGCTTCTGTCTTTCCAGGGTGTCTGCATCCCTGTCCAAGATTGTGGCTGCACCCATAATGGCCGATACTT
GCCGGTAAACTCCTCCTGCTGACCTCAGACTGCAGCGAGCGCTGTTCTGTTCTCAAGCTCTGGCCTGACATG
CCAGGCAGCTGGCTGCCACCCAGGCGGTGTATGTGAGGTCAAGGCTGAAGCCCGGAAGTGTGGGCCACCCGTGG
TCTCTGTGTCTGTCTGTGGGTGCCAACCTCACACCTTTGATGGGGCCCGTGGTGCCACCACCTCTCCTGGTGT
CTATGAGCTCTCTTCCCGCTGCCAGGACTACAGAATACCATCCCCTGGTACCGTGTAGTTGCCGAAGTCCAGAT
CTGCCATGGCAAAACGAGGCTGTGGGCCAGGTCCACATCTTCTTCCAGGATGGGATGGTGACGTTGACTCCAAA
CAAGGGTGTGTGGGTGAATGGTCTCCGAGTGGATCTCCAGCTGAGAAGTTAGCATCTGTGTCCGTGAGTCGTAC
ACCTGATGGCTCCCTGCTAGTCCGCCAGAAGGCAGGGGTCCAGGTGTGGCTTGGAGCCAATGGGAAGGTGGCTGT
GATTGTGAGCAATGACCATGCTGGGAACTGTGTGGGGCCTGTGGAACTTTGACGGGGACAGACCAATGATTG
GCATGACTCCAGGAGAAGCCAGCGATGGAGAAATGGAGAGCGCAGGACTTCTCCCCATGTTATGGCTGATCAGT
CATCCACCAGGAACGAAGATTTCTGAAGAAGACCTGGTCCCTCTGGAGGTTGCAGTGGCTGAAGGATGCATCAT
GTGCTCCTACCTGCTCTACCGCTTTTCTGGGTACAGAGGCCAAATGTGAGAGCATTGAATAAATATCTTAAGC
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FIGURE 5439

GTCAACTTAGTGTACAATGCTGTCAGATGAACCTTACCCTTGTAAGGCTTGTAACCTGGTTCCCTCCCTTTCTTAA
GCCCTTATTGGCTATCTTTCTTCTTTTAATATTTAAAGTTTTTAATCTTTAAATTTTAAATTTTAAACCATGCT
TGTTTAACCTGCTGGTAAATTCACGTCTTTCAGACTGTAATGCTTTCATGCCAAGTAAATGGTCTTGCCAGGCT
TCCAGCCTGTTTCAGAGACCACTAGCCCAGAGCCGTATCAGCCCCCTTCAGCAAGCCATAAGAAATTTCTACTCCT
CCTGGAAATAGATGTAGAGACTATGTCCATGCTTAGCAGGAAGTAGTTCCAGAAGAGACCTTTGCTCCTTAAGAA
TAAGGAGAATGAGGACTGCGAAGGAGAACGCAGCAAGCCCAGGCGGCGGTGGAAAGGCTGGAGGACACACCTAAA
CATGTGGAATCCCAATGCCGGGCAGCCAGGGCCAAATCCATATCCCCCAATATTGGGTGCCCTGGAGGTTCCAA
TCCTGCCCACCCACCACCTATTAATCCACCCCTTTCCCCCAGGCCCTGTCTCCTCCCCCAGGAGCTCCCCATGG
CAATCCAGCTTTCCCCCAGGTGGGCCCCCTCATCTGTGCCACAGCCAGGGTATCCAGGATGCCAACCGTTGGG
TCCCTACCTCCTCCATACCCACCGCCTGCCCTGGAATCCCTCCTGTGAATCCCTTGGCTCCTGGCATGGTTGG
ACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATGCACAAGCACCAAAA
GCACCACAAGTACCACAAGCATGACAAGCATTCCTCCTCTTCTCCTCCTCTTCCAGCAGTGATTCTGACTGAAT
ACAGGCCCTGGACCCTTCCCTCAAGTCCCACCAAGTTCTGCTCTCCCATCAAGCTTCAGATGCCACGTTGTACTGG
GGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCTGCTGTTGAGCCCTGAGTGGCTA
GGGGAATAGGAAGAGGATTGCCATGGCCTGGCCATCTTGTGCTGCTTGGAGAGATCATATAGCTAATGAATTA
GGCAGGGGAGCTATTTTTTGAAGATGATGAACTAAATGTTGAAGACAAGTTTGAGATCTGTAAATGTGATTTTT
TACTTCCACTTATAATACTTGTGATTGGGGAGGTTTGTGGAAATTCAATTATGATGAAAAACCTCTATCTTTTT
GTAATGTTGGCATACTTGGGGGATTTAGTGGCAAATACATTCCCCAGCAGGCCTTTTGTGGTTGCACTAACTGC
AAGGTTGCTGGGAAGTAGAGTCCATTTGGTTGATGAGCTTTGACTGCGGTTTTGGAACCTTACCTCTCCTCCTTA
GCCCAATATGCTGTCTCGGGTCTATTCAAATAAAGTTATTTCTCCTGGTCT

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GCGAAGGAGAAACGCAGCAAGCCCAGGCGGGCGGTGGAAAGGCTGGAGGACACACCTAAACATGTGGAATCCCAATG
 CCGGGCAGCCAGGGCCAAATCCATATCCCCCAGGTGGGCCCCCTCATCCTGTGCCACAGCCAGGGTATCCAGGA
 TGCCAACCGTTGGGTCCCTACCCTCCTCCATACCCACCGCCTGCCCCGGAATCCCTCCTGTGAATCCCTTGGCT
 CTTGGCATGGTTGGACCAGCAGTGATAGTGGACAAGAAGATGCAGAAGAAAATGAAGAAAGCTCATAAAAAGATG
 CACAAGCACCAAAAGCACCAAGTACCACAAGCATGACAAGCATTCCTCCTCTTCTCCTCCTCTTCCAGCAGT
 GATTCTGACTGAATACAGGCCCTGGACCCCTTCCCTCAAGTCCCACCAGTTCTGCTCTCCCATCAAGCTTCAGATG
 CCACGTTGTACTGGGGGAATGTAGCCCTTGTGCTCCCCACCCCTACCTCCACCTGAGCCTCACCCCTGCTGTTGA
 GCCCTGAGTGGCTAGGGGAAATAGGAAGAGGATTGCCATGGCCCTGGCCATCTTGTTGCTGCTTGGAGAGATCATA
 TAGCTAATGAATTAGGCAGGGGAGCTATTTTTTTGAAGATGATGAACATAAATGTT

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FIGURE 5441

GGCTTGGTCACTATGGAGGAGATAGGCATCTTGGTGGAGAAGGCTCAGGATGAGATCCCAGCACTGTCCGTGTCC
CGGCCCCAGACCGGCCCTGTCCTTCCTGGGCCCTGAGCCTGAGGACCTGGAGGACCTGTACAGCCGCTACAAGAAG
CTGCAGCAAGAGCTGGAGTTCCTGGAGGTGCAGGAGGAATACATCAAAGATGAGCAAAAGAACCTGAAAAAGGAA
TTTCTCCATGCCCAGGAGGAGGTGAAGCGAATCCAAAGCATCCCGCTGGTCATCGGACAATTTCTGGAGGCTGTG
GATCAGAATACAGCCATCGTGGGCTCTACCACAGGCTCCAACCTATTATGTGCGCATCCTGAGCACCATCGATCGG
GAGCTGCTCAAGCCCAACGCCTCAGTGGCCCTCCACAAGCACAGCAATGCACTGGTGGACGTGCTGCCCCCGAA
GCCGACAGCAGCATCATGATGCTCACCTCAGACCAGAAGCCAGATGTGATGTACGCGGACATCGGAGGCATGGAC
ATCCAGAAGCAGGAGGTGCGGGAGGCCGTGGAGCTCCCGCTCACGCATTTTCGAGCTCTACAAGCAGATCGGCATC
GATCCCCCCCCGAGGCGTCCCTCATGTATGGCCCACCTGGCTGTGGGAAGACCATGTTGGCAAAGGCGGTGGCACAT
CACACAACAGCTGCATTATCCGGGTCTGTTGGGCTCGGAGTTTGTACAGAAGTATCTGGGTGAGGGCCCCCGCATG
GTCCGGGATGTGTTCCGCCTGGCCAAGGAGAATGCACCTGCCATCATCTTCATAGACGAGATTGATGCCATCGCC
ACCAAGAGATTTCGATGCTCAGACAGGGGCCGACAGGGAGGTTTCAGAGGATCCTGCTGGAGCTGCTGAATCAGATG
GATGGATTTGATCAGAATGTCAATGTCAAGGTAATCATGGCCACAAACAGAGCAGACACCCTGGATCCGGCCCTG
CTACGGCCAGGACGGCTGGACCGTAAATTTGAATTTCCACTTCCTGACCGCCGCCAGAAGAGATTGATTTTCTCC
ACTATCACTAGCAAGATGAACCTCTCTGAGGAGGTTGACTTGGGAAGACTATGTGGCCCGGCCAGATAAGATTTCA
GGAGCTGATATCAACTCCATCTGTCAGGAGAGTGGAAATGTTGGCTGTCCGTGAAAACCGCTACATTGTCTGGCC
AAGGACTTCGAGAAAGCATAAAGACTGTCATCAAGAAGGACGAGCAGGAGCATGAGTTTACAAGTGACCCCTTC
CCTTCCCTCCACCACACCACTCAGGGGCTGGGGCTTCTCTCGCACCCCCAGCACCTCTGTCCCAAAACCTCATTC
CCTTTTTTCTTTACCCAGGATTGGTTTCTTCAATAAATAGATAAGATCGAATCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5442

MEEIGILVEKAQDEIPALSVSRPQTGLSFLGPEPEDLEDLYSRYKKLQQELEFLEVQEEYIKDEQKNLKKEFLHA
QEEVKRIQSIPLVIGQFLEAVDQNTAIVGSTTGSNYYVRILSTIDRELLKPNASVALHKHSNALVDVLPPEADSS
IMMLTSDQKPDVEMYADIGGMDIQKQEVREAVELPLTHFELYKQIGIDPPRGVLMYGPPGCGKTMLAKAVAHHTTA
AFIRVVGSEFVQKYLGEGRMVRDVFR LAKENAPAIIFIDEIDAIATKRFDAQTGADREVQRILLELLNQMDGFD
QNVNVKVI MATNRADTLDPALLRPGR LDRKIEFPLPDRRQKRLIFSTITSKMNLSEEVDLEDYVARPDKISGADI
NSICQESGMLAVRENRYIVLAKDFEKAYKTVIKKDEQEHEFYK

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FIGURE 5443

ACTGTGCCCTGTCCACGGTGCCTCCTGTCATGTCCTGCTGCCCTGAGCTGTCCCGAGCTAGGTGACAGCGTACCAC
GCTGCCACCATGAATGAGGTGTCTGTCATCAAAGAAGGCTGGCTCCACAAGCGTGGTGAATACATCAAGACCTGG
AGGCCACGGTACTTCCTGCTGAAGAGCGACGGCTCCTTCATTGGGTACAAGGAGAGGCCCGAGGCCCTGATCAG
ACTCTACCCCCCTTAAACAACCTTCTCCGTAGCAGAATGCCAGCTGATGAAGACCGAGAGGCCGCGACCCAACACC
TTTGTCTATACGCTGCCTGCAGTGGACCACAGTCATCGAGAGGACCTTCCACGTGGATTCTCCAGACGAGAGGGAG
GAGTGGATGCGGGCCATCCAGATGGTCGCCAACAGCCTCAAGCAGCGGGCCCCAGGCGAGGACCCCATGGACTAC
AAGTGTGGCTCCCCAGTGACTCCTCCACGACTGAGGAGATGGAAGTGGCGGTGAGCAAGGCACGGGCTAAAGTG
ACCATGAATGACTTCGACTATCTCAAACCTCCTTGGCAAGGGAACCTTTGGCAAAGTCATCCTGGTGCGGGAGAAG
GCCACTGGCCGCTACTACGCCATGAAGATCCTGCGGAAGGAAGTCATCATTGCCAAGGATGAAGTCGCTCACACA
GTCACCGAGAGCCGGGTCTTCCAGAACACCAGGCACCCGTTCTCACTGCGCTGAAGTATGCCTTCCAGACCCAC
GACCGCCTGTGCTTTGTGATGGAGTATGCCAACGGGGGTGAGCTGTTCTTCCACCTGTCCCGGGAGCGTGTCTTC
ACAGAGGAGCGGGCCCGGTTTTATGGTGCAGAGATTGTCTCGGCTCTTGAGTACTTGCACTCGCGGGACGTGGTA
TACCGCGACATCAAGCTGGAAAACCTCATGCTGGACAAAGATGGCCACATCAAGATCACTGACTTTGGCCTCTGC
AAAGAGGGCATCAGTGACGGGGCCACCATGAAAACCTTCTGTGGGACCCCGAGTACCTGGCGCTGAGGTGCTG
GAGGACAATGACTATGGCCGGGCGGTGGACTGGTGGGGGTGGGTGTGGTCATGTACGAGATGATGTGCGGCCGC
CTGCCCTTCTACAACCAGGACCACGAGCGCCTTCTCGAGCTCATCTCATGGAAGAGATCCGCTTCCCGCGCACG
CTCAGCCCCGAGGCCAAGTCCCTGCTTGCTGGGCTGCTTAAGAAGGACCCCAAGCAGAGGCTTGGTGGGGGGCCC
AGCGATGCCAAGGAGGTGATGGAGCACAGGTTCTTCCTCAGCATCAACTGGCAGGACGTGGTCCAGAAGAAGCTC
CTGCCACCCTTCAAACCTCAGGTACGTCCGAGGTGACACAAAGGTACTTCGATGATGAATTTACCGCCCAGTCC
ATCACAATCACACCCCCTGACCGCTATGACAGCCTGGGCTTACTGGAGCTGGACCAGCGGACCCACTTCCCCCAG
TTCTCCTACTCGGCCAGCATCCGCGAGTGAGCAGTCTGCCACGCAGAGGACGCACGCTCGCTGCCATCACCCT
GGGTGGTTTTTTCCCCCT

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FIGURE 5444

CTCTTTATAATTTAGTTTCCATAGAAAGTTATATGTGCATTTAAAAAAATTCAATGCTGGAGCGACCGTGTCTGGG
GAGCCGAGCCCCGCTTCTCGCTGCGGTGAGCCCCGACTGGGGCACGCACTGCGCAGACTCCCCGCTGCAGTGGGC
GGAGCTCCACAGGCCCCGCCCCCTCCTCCCCACCTCGTTTCAGCCTGTCCAGACAGAAGCTGGGGCCAGCGGAG
GTAGCAGCAGACGCTGAGAGCGAGGCCGAGGCCCTCAGGGTTTGGAGACCCTGACACACCCACCTTCTCACCT
GGGCTCTGCGTATCCCCCAGCCTTGAGGGAAGATGAAGCCTAAACTGATGTACCAGGAGCTGAAGGTGCCTGCAG
AGGAGCCCCGCAATGAGCTGCCCATGAATGAGATTGAGGCGTGGAAGGCTGCGGAAAAGAAAGCCCGCTGGGTCC
TGCTGGTCCCTCATTTCTGGCGGTTGTGGGCTTCGGAGCCCTGATGACTCAGCTGTTTCTATGGGAATACGGCGACT
TGCATCTCTTTGGGCCCCAACAGCGCCAGCCCCCTGCTATGACCCTTGCGAAGCAGTGCTGGTGGAAAGCATTTC
CTGAGGGCCTGGACTTCCCCAATGCCTCCACGGGGAACCCCTTCCACCAGCCAGGCCTGGCTGGGCCTGCTCGCCG
GTGCGCACAGCAGCCTGGACATCGCCTCCTTCTACTGGACCCTCACCAACAATGACACCCACACGCAGGAGCCCT
CTGCCAGCAGGGTGAGGAGGTCTCCGGCAGCTGCAGACCCTGGCACCAAGGGCGTGAACGTCCGCATCGCTG
TGAGCAAGCCCAGCGGGCCCCAGCCACAGGCGGACCTGCAGGCTCTGCTGCAGAGCGGTGCCAGGTCCGCATGG
TGGACATGCAGAAGCTGACCCATGGCGTCTGCATACCAAGTTCTGGGTGGTGGACCAGACCCACTTCTACCTGG
GCAGTGCCAACATGGACTGGCGTTCCTGACCCAGGTCAAGGAGCTGGGCGTGGTCACTGTACAACCTGCAGCTGCC
TGGCTCGAGACCTGACCAAGATCTTTGAGGCCTACTGGTTCTGGGCCAGGCAGGCAGCTCCATCCCATCAACTT
GGCCCCGGTTCTATGACACCCGCTACAACCAAGAGACACCAATGGAGATCTGCCTCAATGGAACCCCTGCTCTGG
CTTACCTGGCGAGTGCGCCCCACCCCTGTGTCCAAGTGGCCGCACTCCAGACCTGAAGGCTCTACTCAACGTGG
TGGACAATGCCCGGAGTTTCATCTACGTGCTGTGATGAACCTACCTGCCACTCTGGAGTTCTCCACCCCTCACA
GGTTCTGGCCTGCCATTGACGATGGGCTGCGGCGGGCCACCTACGAGCGTGGCGTCAAGGTGCGCCTGCTCATCA
GCTGCTGGGGACACTCGGAGCCATCCATGCGGGCCTTCTGCTCTCTCTGGCTGCCCTGCGTGACAACCATACCC
ACTCTGACATCCAGGTGAAACTCTTTGTGGTCCCCGCGGATGAGGCCAGGCTCGAATCCCATATGCCCGTGTCA
ACCACAACAAGTACATGGTGACTGAACGCGCCACCTACATCGGAACCTCCAACCTGGTCTGGCAACTACTTCACGG
AGACGGCGGGCACCTCGCTGCTGGTGACGCGAGAATGGGAGGGGCGGCCTGCGGAGCCAGCTGGAGGCCATTTTCC
TGAGGGACTGGGACTCCCCCTTACAGCCATGACCTTGACACCTCAGCTGACAGCGTGGGCAACGCCTGCCGCCTGC
TCTGAGGCCCGATCCAGTGGGCAGGCCAAGGCCTGCTGGGCCCCCGCGGACCCAGGTGCTCTGGGTACAGGTCCC
TGTCCCCGCGCCCCCGCTTCTGTCTGCCCCATTGTGGCTCCTCAGGCTCTCTCCCCTGCTCTCCACCTCTACCT
CCACCCCCACCGGCTGACGCTGTGGCCCCGGGACCCAGCAGAGCTGGGGGAGGGATCAGCCCCCAAAGAAATGG
GGGTGCATGCTGGGCCTGGCCCCCTGGCCACCCCCACTTTCCAGGGCAAAAAGGGCCCAGGGTTATAATAAGTA
AATAACTGTCTGT

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FIGURE 5445

GCACACCCGGAAGTGGGTGCGGGCCAGCCGGCTCGCCCGGGGGCCATGGCAGCAGCGGCTACTGCAGCCGAGGGG
GTCCCCAGTCGGGGGCCTCCCGGGGAAGTCATTATCTGAATGTGGGAGGCAAGAGATTAGTACCTCTCGCCAG
ACTCTACCTGGATCCAGACTCCTTCTTCTCCAGTCTTCTGAGCGGACGCATCTCGACGCTGAAAGATGAGACC
GGAGCAATCTTCATCGATCAGGGACATTACAGTCTTCGCCCACCCGTCACCTACGCTTTCGCGCATCACAAAGA
GTTGGATCCCAGGGGTGTCCACGGTTCAGCCTCCTCCATGAAGCCCAGTTCTATGGGCTCACTCCTCTGGTTCG
TCGCCTGCAGCTTCGAGAGGAGTTGGATCGATCTTCTTGTTGAAACGTCCTCTTCAATGGTTACCTGCCGCCACC
AGTGTTCACAGTGAAGCGGCGGAACCGGCACAGCCTAGTGGGGCCTCAGCAGCTAGGAGGACGGCCAGCCCCCTGT
CCGACGGAGCAACACGATGCCCCCAACCTTGGCAATGCAGGGCTGCTGGGCCGAATGCTGGATGAGAAAAACCC
TCCCTCACCTCAGGACAACCTGAGGAGCCGGGGATGGTGCGCCTGGTGTGTGGACACCATAATTGGATCGCTGT
GGCCTATACCCAGTTTCTAGTCTGCTACAGGTTGAAGGAAGCCTCTGGCTGGCAGCTGGTGTTCAGCCCCCG
CCTGGACTGGCCATCGAACGACTGGCGCTCACAGCCCGGGTGCATGGTGGGGCTTGGGTGAACATGACAAGAT
GGTGGCAGCAGCCACCGGCAGCGAGATCCTGCTATGGGCTCTGCAGGCGGAAGGCGGTGGCTCCGAGATAGGGGT
CTTTCATCTGGGGGTGCTGTGGAGGCCTTGTCTTCGTGCGGAACAGCTCATTGCTACAAGCCACACAGGGCG
CATCGGGGTGTGGAATGCCGTACCAAGCACTGGCAGGTCCAGGAGGTGCAGCCCATCACCAGTTATGACGCGGC
AGGCTCCTTCTCTCTCTGGGCTGCAACAACGGCTCCATTTACTACGTGGATGTGCAGAAGTTCCTTGCGCAT
GAAAGACAACGACCTCCTTGTGAGCGAGCTCTATCGGGACCCAGCGGAGGATGGGGTCAACGCCCTCAGTGTCTA
CCTCACCCCAAGACAGTGACAGTGGGAAGTGGATCGAGATCGCCTATGGCACCAGCTCAGGGGGCGTGGGGT
CATCGTGCAGCACCCGGAGACTGTGGGCTCGGGGCCTCAGCTCTTCCAGACCTTCACTGTGCACCGCAGCCCTGT
CACCAAGATCATGCTGTGCGAGAAGCACCTCATCTAGTCTGTGCCGACAACAACACGTGCGGACATGGTCTGT
GACTCGCTTCCGCGGCATGATTTCCACCCAGCCGGCTCCACCCACTCGCTTCCTTTAAGATCCTGGCTCTGGA
GTCGGCAGATGGGCATGGCGGCTGCAGTGTCTGGCAATGACATTGGCCCCTACGGTGAGCGGGACGACCAGCAAGT
GTTTCATCCAGAAGGTGGTGGCCAGTGCCAGCAGCTCTTCGTGCGTCTCTCATCTACTGGGCAGCGGGTGTGCTC
CGTGCCTCCGTGGACGGCTCACCCACGACAGCCTTCACAGTGTGGAGTGCAGGGGCTCCCGCGGCTCGGCTC
TCGGCCCCGGCGCTACCTGCTCACTGGCCAGGCCAACGGCAGCTTGGCCATGTGGGACCTAACCCGCCATGGA
CGGCCTCGGCCAGGCCCTGCAGGTGGCCTGACGGAGCAAGAGCTGATGGAACAGCTGGAACACTGTGAGCTGGC
CCCGCCGGCTCCTTCAGCTCCCTCATGGGGCTGTCTCCCAGCCCTCACCCCGCATCTCCCTCACCAGCCTCCA
CTCAGCCTCCAGCAACACCTCCTTGTCTGGCCACCGTGGGAGCCCAAGCCCCCGCAGGCTGAGGCCCCGGCGCCG
TGGTGGGGGACGCTTTGTGGAACGCTGCCAGGAAGTGGTGCAGGAGTGGGCCAGACCTCCGACGGCCACCCACACC
AGCCCCGTGGCCCTCAGCGGTCTCGGCACTCCCCTCACACCTCCCAAGATGAAGCTCAATGAAACTTCCTTTTG
AACAACGCAGCTGCCATGATGCCTTGGGATGCCCTGGTCTGGGGGACTCAGGTGCCTCCCTGATTCTGTGGGA
ACCCCGGGTTCAGGGCCAGGGCCTCCTTGGAATAAATGGTTATTGTTACTAGGTCCCCACCTTCCCTCTTTTCTG
GAAGCCAAAGTACCCTCCCCAATAAAGTCCTCACTGCC

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FIGURE 5446A

CGTTGCTGTTTGTGCTGCTGCCCCGGGCCAGACGTCTAGGAGGAGCCGCTGCATCCGAGTCCCTGGCTGTCTCCG
AAGCCTTCTGCAGGGTCCGAAGCTGCCAGCCCCAAAAGTGTGCAGGCCCCCAGCGGTGCCTGAACCCAGTGCCTG
CAGTGCCCACTCCCAGCCCCAGCGTGAGGAAGAGACAGGTGTCCCTCAACTGGCAGCCACTGACGCTCCAGGAGG
CCAGAGCTCTACTGAAGCGGCGGGCGGCCCCGGGGGCCAGGGGGCCGGGGACTACTGAGAAGGAGGCCCCCACAGC
GTGCCCCCGCTGGCAAGGCCCCGGTCTGTGTCCCTTGATCTGTGACAATGGCGGTGTGTGCGTGAAGCCTGACC
GCTGCCTCTGTCCCCCGGACTTCGCTGGCAAGTTCTGCCAGTTGCACTCCTCGGGCGCCCCGGCCCCCGGCCCGG
CTGTACCAGGCCTCACCCGCTCCGTGTACACTATGCCACTGGCCAACCACCGCGACGACGAGCACGGCGTGGCAT
CTATGGTGAGCGTCCACGTGGAGCACCCGCGAGGAGCGTCGGTGGTGGTGCACCAGGTGGAGCGTGTGTCTGGCC
CTTGGGAGGAGGCGGACGCTGAGGCGGTGGCGCGGGCGGAAGCGGCGGCGGGCGGAGGCGGCAGCGCCCTACA
CGGTGTTGGCACAGAGCGCGCGGGGAGGACGGCTACTCAGATGCCTCGGGCTTCGGTTACTGCTTTCGGGAGC
TGCGCGGAGGCGAATGCGCGTCCCCGCTGCCCGGGCTCCGGACGCGAGGAGTCTGCTGCCGAGGGGCGGGCTTG
CCTGGGGCGTTACGACTGTGAGCTGTGCTCCGAGCGCCTGGGGAACTCGAAAGAGTGAGCGCCCCAGATGGAC
CTTGTCCAACCGGCTTTGAAAGAGTTAATGGGTCTGCGAAGATGTGGATGAGTGCAGGACTGGCGGGCGCTGCC
AGCACGGCGAGTGTGCAAAACACGCGCGGGCGGTACACGTGTGTGTGCCCGACGGCTTCTGCTCGACTCGTCCC
GCAGCAGCTGCATCTCCCAACACGTGATCTCAGAGGCCAAAGGCCCTGCTTCCGCGTGCTCCGCGACGGCGGCT
GTTGCTGCCCATTTCTGCGGAACATCACTAAACAGATCTGCTGCTGCAGCCGCTAGGCAAGGCTGGGGCGGG
GCTGCCAGCTCTGCCACCCCTTCGGCTCAGAGGGTTTCGGGAGATCTGCCCGGCTGGTCTGGTTACCACTACT
CGGCTCCGACCTCCGCTACAACACCAGACCCCTGGGCCAGGAGCCACCCGAGTGTACTCAGCCAGCCTCGTA
CCCTGCCACCACTCTCGGCCATCTGCAGGCTTTCTGCCACCCATCGCTGGAGCCCCGGCCTGAACCCCGGC
CCGATCCCCCGGCCCGGCTGAGCTTCCCTTGCCAGCATCCCTGCCTGGACTGGTCTGAGATTCTGAATCAG
GTCCCTCCTCCGGCATGTGTGACGCAACCCCCAGGTCTGCGGCCAGGACGCTGCATTTCGGGCCAGCGGCT
ACACCTGCGCTTGCGACTCTGGCTTCCGGCTCAGGCCCCAGGGCACCCGATGCATTGATGTGGACGAATGTCGCC
GCGTGCCCCCGCCCTGTGCTCCCGGGCGCTGCGAGAAGTACCAGGAGCTTCCGCTGCGTGTGCGGCCCGGGCT
TCCGAGCCGGCCACGGGCTGCGGAATGCTGGATGTGGAGTGCCACCGCGTGCCGCCCGGCTGTGACCTCG
GGCGCTGCGAGAACACGCCAGGCGAGCTTCTGTGCGTGTGCCCGCGGGTACCAGGCTGCACCGCACGGAGCCA
GCTGCCAGGATGTGGATGAATGCACCCAGAGCCCAGGCTGTGTGGCCGAGGGGCTGCAAGACCTGCCTGGCT
CTTTCCGCTGTGTTTGCCCGGCTGGCTTCCGGGGCTCGGCGTGTGAAGAGGATGTGGATGAGTGTGCCAGGAGC
CGCCGCCCTGTGGGCGCGGCGCTGTGACAAACAGGCGAGGCTCCTTTCACTGTGCTGCTGCTGCTGCTGCTGCT
CCCGAGGGCCCGGGCCCCCTGCCAAGATGTGGATGAGTGTGCCGAAGCCCCCACCTGCACCTACGGCCGGT
GTGAGAACACAGAAGGCGAGCTTCCAGTGTGTGCCCCATGGGCTTCCAACCCAACACTGCTGGTCCGAGTGC
AGGATGTGGATGAGTGTGAGAACCACCTCGCATGCCCTGGGCGAGGAGTGTGTGAAGTGCCTGGCTCCTTCCAGT
GCAGGACCTGTCTTCTGGCCACCACCTGCACCGTGGCAGATGCACTGATGTGGACGAATGCAGTTCCGGGTGCC
CTCCCTGTGGTCCCCACGGCCACTGCACTAACACCGAAGGCTCCTTCCGCTGCAGCTGCGCGCCAGGCTACCGGG
CGCCGTGCGGTGCGGCCCGGGCCCTGCGCAGACGTGAACGAGTGCCTGGAGGGCGATTCTGCTTCCCTCACGGCG
AGTGCCTCAACACTGACGGCTCCTTTGCCTGTACTTGTGCCCTGGCTACCGACCCGGACCCCGCGGAGCCTCTT
GCCTCGACGTTGACGAGTGCAGCGAGGAGGACCTTGGCAGAGCGGCATCTGTACCAACACCGACGGCTCCTTCG
AGTGCATCTGTCTCCGGGACACCGCGCTGGCCCGGACCTCGCTCCTGCTCGACGTGGACGAATGTGCGGAGC
GAGGCCAGCCCTGTGCGGGTGCAGCGCTGTGAGAAGTCTCCCGGCTCCTACCGCTGTGTCCGGGACTGCGATC
CTGGGTACCACGCGGGCCCCGAGGGCACCTGTGACGATGTGGATGAGTGCCAAGAATATGGTCCCGAGATTGTG
GAGCCCAGCGTTGTGAGAACACCCCTGGCTCCTACCGCTGCACACCGCCTGTGACCCTGGCTATCAGCCCACGC
CAGGGGGCGGATGCCAGGATGTGAACGAGTGTGAACACTACAGGGTGTATGTGGAGCTGCCCTGTGTGAAAATG
TCGAAGGCTCCTTCTGTGTCTGCCCCAACAGCCCGGAAGAGTTTGACCCCATGACTGGACGCTGTGTTCCCC
CACGAACCTTGTGCTGGCACGTTCCAGGCTCGCAGCCCCAGGCACCTGCTAGCCCCGTTCTGCCCGCCAGGCCAC
CTCCGCCACCCCTGCCCGCCGACCCAGCACACCTAGGCAGGGCCCTGTGGGGAGTGGGCGCCGGGAGTGCTACT
TTGACACAGCGGCCCCGGATGCATGTGACAACATCTGGCTCGGAATGTGACATGGCAGGAGTGCTGCTGTACTG
TGGGTGAGGGCTGGGGCAGCGGCTGCCGCATCCAGCAGTCCCCGGGCACCGAGACAGCTGAGTACCAGTCATTGT
GCCCTCACGGCCGGGGCTACCTGGCGCCAGTGGAGACCTGAGCCTCCGAGAGACGTGGACGAATGTGAGCTCT
TCCGAGACCAGGTGTGCAAGAGTGGCGTGTGTGTGAACAGGCCCCGGGCTACTCATGCTATTGCAGCAACGGCT

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FIGURE 5446B

ACTACTACCACACACAGCGGCTGGAGTGCATCGACAATGACGAGTGCGCCGATGAGGAACCGGCCTGTGAGGGCG
GCCGCTGTGTCAACACTGTGGGCTCTTATCACTGTACCTGCGAGCCCCACTGGTGCTGGATGGCTCGCAGCGCC
GCTGCGTCTCCAACGAGAGCCAGAGCCTCGATGACAATCTGGGAGTGTGCTGGCAGGAAGTGGGGGCTGACCTCG
TGTGCAGCCACCCTCGGCTGGACCGTCAGGCCACCTACACAGAGTGTGCTGCTGCTGTATGGAGAGGCCTGGGGCA
TGGACTGCGCCCTCTGCCCTGCGCAGGACTCAGATGACTTCGAGGCCCTGTGCAATGTGCTACGCCCCCGCAT
ATAGCCCCCGCGACCAGGTGGCTTTGGACTCCCCTACGAGTACGGCCAGACTTAGGTCCACCTTACCAGGGCC
TCCCATATGGGCCTGAGTTGTACCCACCACCTGCGCTACCCTACGACCCCTACCCACCGCCACCTGGGCCCTTCG
CCCGCCGGGAGGCTCCTTATGGGGCACCCCGCTTCGACATGCCAGACTTTGAGGACGATGGTGGCCCCCTATGGCG
AATCTGAGGCTCCTGCGCCACCTGGCCCGGGCACCCGCTGGCCCTATCGGTCCCGGGACACCCGCCGCTCCTTCC
CAGAGCCCGAGGAGCCTCCTGAAGGTGGAAGCTATGCTGGTTCCCTGGCTGAGCCCTACGAGGAGCTGGAGGCGG
AGGAGTGCGGGATCCTGGACGGCTGCACCAACGGCCGCTGCGTGCGCGTCCCCGAAGGCTTACCTGCCGTGCT
TCGACGGCTACCGCCTGGACATGACCCGCATGGCCTGCGTTGACATCAACGAGTGTGATGAGGCCGAGGCTGCCT
CCCCGCTGTGCGTCAACGCGCGTTGCCCTCAACACGGATGGCTCCTTCCGCTGCATCTGCCGCCCGGGATTGCGAC
CCACGCACCAAGCCGACCACTGTGCGCCCGCACGGCCCCGGGCCTGAGCCCTGGCACCCGCTGGCCGCCACCCG
CGCCGCCACTCGGGGCCCCCTGCCGCGCATCCTGCAGCCCGCTTATGCGTATGTGCACGGGGCCGCCCGCCTGGA
CCTGGAGAAGGGACCTACGGACGCTTGAAGCTGCGACGCCCTGCACTGCTCCCGCCTCCACCAGCGCCTCCAC
TGATGTCGTGGTCCCGGGCCTGGCCCAGGGGCCCTTTACATGCCCTCTCCCTTTTATAAAATTTTCCATTAAAA
ACCACCTATTTTCT

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FIGURE 5447

GTGGTTATCGCGGCGCCACCGGCCTCTGATCTCTGAGTCTTCTCCAACCCACAGACGTTTTTTGTTGCTCTGGT
TCCAGGACCTTCTCCACAAGTAGGCCATTTTCCCTGCCAGGTGTCCTTTTTGACCTCTTGACCTCTGACTCAAAG
GTCAGCTCAAAGGTTCCGAAGTTCGGGCCTGGGATGTGAGGGGGTACTGAACCTAAGTTCTCCGAATCTTTAGCCC
TGGGTCCCTAAGTCGCATCCTTAAGGCACCTCACTCTAGATCTGAGCCTTCATATCCCAAAGTCACTCATGAGTT
TCCACATCCAGCCCCAAAGAATGAGTTAACTCCTACTAACTCTCCACCTAAGACTCCCGAGGTAACCCAAACCGGT
ACCACAGATCCGGTTCCGGATTTAAGGACCCACCCCTGTTAACCGTCAGGTGCCTTATGACTTGAGTCAGCCTCG
CAATTCCTGCTCCCGTGGTTTCAAATATTAGCCCTGGTCCTTTCACACCCACTGCTCAGTCCCCGAGATTCTGGAA
CTCAGCTCTTAAACCTTTAAATCTCCATCCCTGAGACCGTTCTCCGTTGGAGGATCCTTCCCTCCCCGCTTTCT
GAACCTCTCAACACCTCCTGTAGACCCCAAATGACTTCTCCATGCTCTCCTCCCCATAAACCCACCAATTTCTCC
TCCAAAACCCCTGTACCCCAAGCCAGCAGCATTCATCTCCTCCTTACCCCCAAGTCCCCTGGACTTTTCAGC
TTTACCATCCCTCCCTGGAGTCAGCAGACCCCTGTTCCCCCACCCTCCCACTGCCTCCTCCACCCGCTGCCAC
AGGGCCTGCTCCCGTCTGTCTTCGGCCTGGAGAAGAGCCAGCTCCTGAAGGAGGCCTTTGATAAGGCCGGCCC
GGTCCCCAAGGGCAGAGAAGATGTGAAGAGGCTTCTGAACTACACAAGGACCGGTTCCGAGGTGACCTGCGGTG
GATCCTCTTCTGTGCAGACCTGCCGTCCCTCATCCAAGAAGGCCCTCAATGCGGGCTGGTGGCCTTGTGGATGGC
AGGTAATCTCCTGTGCCCCCAGTGGCGTCCCTGGAGAGACTCATACGGGTGGCCACGGAAAGAGGCTACAC
GGCCAGGGAGAGATGTTCTCAGCACCAGCTACGACGAGGACTTCAACCATGAGCCGTGTCAGAGGAAGGGCCAC
AAGGCACACTGGGCGGTGAGTGCAGGGTCTGCTGGGTGTTCCGGCTGTGCCAGTCTCGGCTACACTGAGGAC
CCTGAGCTGCCGGGCTGTTCCACCCAGTGTGGGCACGCCCTGCCAACCACCATCCCTGCCAGAGGAGGGCTCC
CCGGGAGCTGTCTACCTGCTGTCCAAGCAGGGCAAGAGTTGGCACTATCAGCTGTGGGACTACGACAGGTCCGG
GAGAGCAACCTGCAGCTGACGGACTTCTCGCCCTCACGGGCCACTGACGGCCGGGTGTACGTGGTGGCCGTGGGT
GGGGTACGGGCTGGCCTCTGTGGCCAGGCCCTGCTCCTCACACCACAGGACTGCAGCCATTAGCTGCGGCTGCGG
TCTCAGGCTGCAGCCTAGCTCGTTTTTAAAGCCCATCTGGGAGCAGTTACCTGTGCCAGCCCCCTTACCTGTGTTA
GCAGATCTGGCAACCCTGTAAGGGGGGTGCTAGATGGACCCGATTGACAGATGGCAAGACTGAGGCCTGGAGAA
GTGGAATCACTGGCCTGAGGTCACATGACTAGCACATGGCAAGATGGAGTCTCGTTCTGTCTGTCAGGCTGGAGT
GCGGTGGCGTGATCTCAGCTCACTCCAGCCTCCACTTCCCAGGTTCAAGTGATTCTCCTGCCTCAGCCCCCAAG
TAACTGGGATTACAGGCATGCACCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGACGGGGCTTTGCCAT
GTTGGCCAGGCTGGTCTCGAACTCCTGACCTTGAGTAATCCACCCGCTCGGCCCTCCCAAAGTGCTGGGATTACA
GGTGTGAGCCACTGAGCCCGGCCACAGTGCAGTATTTCTAACCAGTGATCAGGGTAAAGAGGATGCGTGTCCACC
ATCCAGCCCTGATCAGCCTGTCTGTGCATCCCCCATCCAGCCAGGGCTTGGAGCAGCCTTGCTCACCACGTG
TCCCCTGCATTGTAACACATCCAGGCACAAGAATAGCCGCCCAGTGACTGCCAAGTGAGTGAACCAGCCTGCTTG
GAGCCTGCCTCTTTCCCAAAGTGTCTCATTATCCTGTTACCCACCCAGCCACGTGTCCAAATACACTCCAGATG
CAAATAAAAAAGCTCTACGACA

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FIGURE 5448

GAATTCCTGACTTCCTTTTCGGAGGAAGATCCTTGAGCAGCCGACGTTGGGACAAAGGATTGGAGAAAACCCAGG
GCTAAAGTCACGTTTTTCCTCCTTTAAGACTTACCTCAACACTTCACTCCATGGCAGTTCCCGAGACCCGCCCTA
ACCACACTATTTATATCAACAACCTCAATGAGAAGATCAAGAAGGATGAGCTAAAAAAGTCCCTGTACGCCATCT
TCTCCAGTTTGGCCAGATCCTGGATATCCTGGTATCACGGAGCCTGAAGATGAGGGGCCAGGCCTTTGTTCATCT
TCAAGGAGGTCAGCAGCGCCACCAACGCCCTGCGCTCCATGCAGGGTTTCCCTTTCTATGACAAACCTATGCGTA
TCCAGTATGCCAAGACCGACTCAGATATCATTGCCAAGATGAAAGGCACCTTCGTGGAGCGGGACCGCAAGCGGG
AGAAGAGGAAGCCCAAGAGCCAGGAGACCCCGGCCACCAAGAAGGCTGTGCAAGGCGGGGAGCCACCCCGTGG
TGGGGGCTGTCCAGGGGCCGTGTCCCGGGCATGCCGCCGATGACTCAGGCGCCCCGCATTATGCACCACATGCCGG
GCCAGCCGCCCTACATGCCGCCCTTGGTATGATCCCCCGCCAGGCCTTGACCTGGCCAGATCCCACAGGGG
CCATGCCCCCGCAGCAGCTTATGCCAGGACAGATGCCCCCTGCCAGCCTCTTTCTGAGAATCCACCGAATCACA
TCTTGTTCCCTACCAACCTGCCAGAGGAGACCAACGAGCTCATGCTGTCCATGCTTTTCAATCAGTTCCCTGGCT
TCAAGGAGGTCGGTCTGGTACCCGGGCGGCATGACATCGCCTTCGTGGAGTTTGACAATGAGGTACAGGCAGGGG
CAGCTCGCGATGCCCTGCAGGGCTTTAAGATCACGCAGAACAACGCCATGAAGATCTCCTTTGCCAAGAAGTAGC
ACCTTTTCCCCCATGCCCTGCCCTTCCCTGTCTGGGGCCACCCCTTTCCCCCTTGGCTCAGCCCCCTGAAGG
TAAGTCCCCCTTGGGGGCCCTTCTTGGAGCCGTGTGTGAGTGAGTGGTCGCCACACAGCATTGTACCCAGAGTCT
GTCCCCAGACATTGCACCTGGCGCTGTTAGGCCGGAATTAAAGTGGCTTTTGGAGTTTGGTTTTTACAAAAAA
AAGGAATTC

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FIGURE 5449

MAVPETRPNHTIYINNLEKIKKDELKKSLEYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGF
PFYDKPMRIQYAKTDSIIAKMKGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPEMTQA
PRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLS
MLFNQFPFGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

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FIGURE 5450

CGGACGAGGCACGAGTGAGGGGGGAGGCGGTGGCGGCGGCCATTTTGAGCCGCTGCCGCCATTGGAGTGGGCCCC
CCCCCTTTCCTTCCTCGCCTCCTGACAGGAAAGGTTTAAAGGGGGACAGAGCCCTGGGAGGCCGGGCGGGCTCGG
GGGCCACCCCGGGGGCCCGGGCCATGGATGTGCGCCGTCTGAAGGTGAACGAACTTCGCGAGGAGCTGCAGCGCC
GCGGCCTGGACACTCGAGGCCTCAAGGCCGAGCTTGCTGAGCGGCTGCAGGCGGCGTTGGAGGCCGAGGAGCCTG
ACGACGAGCGGGAGCTCGACGCCGACGACGAACCGGGGCGACCCGGGCGACATCAACGAGGAGGTTCGAGACCGAGG
GGGGCTCCGAGCTGGAGGGGACCGCGCAGCCACCGCCCGGGGCTGCAGCCGCACGCGGAGCCCCGGCGGCTACT
CGGGGCCGAGCGGACATTATGCCATGGACAATATTACCAGGCAGAACCAATTCTACGATACCCAAGTCATCAAAC
AAGAAAACGAGTCAGGCTACGAGAGGAGACCACTGGAAATGGAGCAGCAGCAGGCGCTATCGTCCAGAAATGAAGA
CAGAGATGAAGCAAGGAGCACCCACCAGCTTCTCCCGCTGAAGCTTCTCAACTCAAGCCAGACAGGCAGCAAT
TCCAGAGTCGAAAGAGGCCCTTATGAAGAAAACCGGGGACGGGGGTACTTTGAGCACCGAGAGGATAGGAGGGGCC
GCTCTCCTCAGCCTCCTGCTGAAGAGGATGAAGATGACTTTGATGATACCCCTTGTTGCTATTGACACCTATAACT
GCGACCTCCACTTCAAGGTGGCCCCGAGATCGGAGTAGTGCTATCCGCTCACAATTGAGGGCTTTGCATACCTGT
GGTCAGGAGCCCGTGCCAGCTATGGGGTCAGAAAGGGGCCGTGTATGCTTCGAGATGAAGATCAATGAGGAAATCT
CCGTGAAGCACCTTCCGCTACAGAGCCTGACCCCACTGGTCCGTATCGGCTGGTCCCTGGACTCCTGCAGCA
CCCAGCTAGGCCGAAGAGCCTTCTCCTATGGCTATGGAGGCACTGGGAAGAAGTCCACCAATAGCCGGTTTGA
ACTACGGAGACAAGTTTGCAGAGAACGATGTGATTGGCTGCTTTGCGGATTTTGAATGTGGAAATGACGTGGAAC
TGTCTTTTACCAAGAAATGGAAAGTGGATGGGCATTGCTTTCCGAATCCAGAAGGAAGCCTTGGGGGGTCAGGCC
TCTATCCTCATGTCTGGTGAAGAAATGCGCAGTGAGTTCAACTTCGGACAGAGAGCAGAGCCCTACTGTTCTG
TCTCCCGGGTTTACCTTCATCCAGCACCTTCCCTTAGTGAGCGTATCCGGGGCACCGTTGGACCAAAGAGCA
AGGCAGAATGTGAGATTCTGATGATGGTGGGCTGCCTGCTGCTGGCAAGACCACATGGGCCATCAAACATGCAG
CCTCCAACCCTTCCAAGAAGTACAACATCCTGGGTACCAATGCCATCATGGATAAGATGCGGGTGATGGGCCTAC
GCCGGCAGCGAACTATGCTGGCCGCTGGGATGTCCTGATCCAGCAGGCCACCCAGTGCCTCAACCGCCTCATCC
AGATTGCTGCCCGCAAGAAACGCAACTATATCCTAGATCAGACAAATGTTTATGGGTGAGCCAGAGACGAAAA
TGAGACCATTTGAAGGCTTCCAGCGCAAAGCTATTGTAATTTGTCCACTGACGAGGAACCTAAAAGACCGAACAA
TAAAGCGAACCGACGAGGAAGGAAGGATGTCCAGATCATGCGGTCTTAGAAATGAAGCCAACTTCACGTTGC
CAGATGTTGGGGACTTCTTGATGAGGTTCTGTTCAATTGAGCTGCAGCGGGAGGAACCGGACAAGTGAAGGC
AGTACAACGAGGAAGGCCGCAAGGCTGGGCCACCCCTGAAAACCGAGGACCCCTGGAGGCAACCGTGCGCTTCC
GGGGCCGCGGGGGTGGTGGTGGCTTCCAGCGCTATGAAAACCGAGGACCCCTGGAGGCAACCGTGCGCTTCC
AGAACCGAGGGGGAGGCAGCGGTGGAGGAGGCAACTACCGAGGAGGTTTCAACCGCAGCGGAGGTGGTGGCTATA
GCCAGAACCCTGGGGTAACAACAACCGGGATAACAACAACCTCCAACAACAGAGGCAGCTACAACCGGGCTCCCC
AGCAACAGCCGCCACCACAGCAGCCTCCGCCACCACAGCCACCACCCAGCAGCCACCGCCACCACCCAGCTACA
GCCCTGCTCGGAACCCCCAGGGGCCAGCACCTACAATAAGAACAGCAACATCCCTGGCTCAAGCGCCAATACCA
GCACCCCCACCGTCAGCAGCTACAGCCCTCCACAGCCGAGTTACAGCCAGCCACCCTACAACCAGGGAGGTTACA
GCCAGGGCTACACAGCCCCACCGCCTCCACCTCCACCACCACCTGCCTACAACCTATGGGAGCTACGGCGGTTACA
ACCCGGCCCCCTATACCCACCGCCACCCCCACTGCACAGACCTACCCCTAGCCAGCTATAACCAGTATCAGC
AGTATGCCCAGCAGTGGAACCACTATCAGAACCAGGGCCAGTGGCCGCCATACTACGGGAACCTACGACTACG
GGAGCTACTCCGGGAACACACAGGGTGGCACAAGTACACAGTAGCCAGTGTGACCCAGAGGCTCCCGGAGGCCCC
TGCCGGCTTCTCCACCAGCGCTGCTCGGCCCTCCTCTGCCCCGCCAGATCCCGTGGTGTGGGGATGGGG
TCATCCAGGGCTGCCTCCCTCCAGCCACTGCCTCCCTCTGAGGGGCTTCTTCCCTCCATAGGGCCAGGCA
TTTTTTTCTGGATTCAAACAGGCAACAATGACCTTTTATTTTCTGTTGTCCCCACCTCCCCAGCCTTCCACCTC
CTGTTCTTCTACCTTCTTCTTTTGAATAAATCCCCACCTCCCTTGATCATACAGTGAGGCTACAGTGAC
TGAGGGGAGAATCCCTCCTGTTCACTCTCCCAACCTGCTCCAGCCCTCAGCTTCCAGACCCTCATGCAGTT
GGTTGTAATTTCTCCAGGAGCTGTTTTACTGTCTACTTTTCAGGATTAATAAATAAATAAATAAATAAATAA
AAAAGTTTAAAAAGCAAAATGGGGAGGGGGAGGAAGCAGTGACTTTTTTTGGTAATTATGCGCTTTTTTTTAA
TTTTAGAAATTTGTCTTTTACTGTGGGTGGGCTGTTGATATTTATCAAGATAAGCATTTCTTCTGAGTTTCAG
GTGACTGAGGAAGAGCCACAAAACAAAACACAACAAAACCAAAACC

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GCTTGGGCGCAGCGGTGCACCCGGACCCGGAACATTCTCAGCGCAAAGTGTCTCTTGGCTGCGTGGGCGCGGAGGT
 TAGTGTGCGGGGCCCCGCGGGCGGTTGAAAAGTCCGAGAGAATCAGGATGGAGGCCGTGGCGACGGCGACGGCGCG
 CGAAGGAACCCGATAAAGGGCTGCATAGAGCCTGGACCTGGGCACTGGGGTGAGCTGAGCCGGACACCAGTCCCAT
 CTAACCCCCAGGACAAAGTGAAGCAGCTGAGGCAACACCAGTGGCCCTGGACAGTGACACCTCCGGGGCTGAAAC
 ATGCAGCAGTGAGTGTCTATGCTGCACGCTGTAGCCGCCAGCCGCTGCCTGTTTGCAGCCAGCAGCAGGGTGAAC
 CCGACTTGACAGAGCATGAGAAAGTGGCCATCTGGCCCAGCTGTACCACGAGAAGCCACTGGTGTCTCTGGAGC
 GCTTCCGCACAGGCCTCCGTGAGGAGCATCTGGCCTGCTTTGGCCACGTGCGTGGCGACCACCGTGCAGACTTCT
 ACTGTGCTGAGGTGGCCCGGCAGGGCACTGCCCGGCCCGCACCCCTGCGTACCCGCTGCGTAACCGGCGCTATG
 CTGCCCTGCGAGAGCTGATCCAAGGGGGCGAGTACTTCAGTGATGAGCAGATGCGGTTCCGGGGCCCCCTGCTAT
 ATGAGCAGTACATCGGGCAGTATCTCACCAGGAGGAGCTCAGTGCCCGCACCCCAACCCACCAGCCCCCAAGC
 CCGGGTCCCCCGGGAGACCTGCTTGGCCGCTCTCCAATTGCTGCTCCAGTCTTACGAGGAGCGGGAGCTACAGC
 AGCGTCTGCTCCAACAGCAGGAGGAGGAGGAGGCGCTGCTTGAGGAAGAGGAAGAGGAGGAGGACAGTGACGAGG
 AAGACCAGAGGTGAGGCAAGGACTCGGAGGCCTGGGTTCGCGACTCGGAGGAGAGGCTGATCTGCGAGAGGAGT
 TCACCAGCCGCATGCACCAGCGCTTCTTAGATGGCAAGGACGGGGACTTTGACTACAGCACAGTAGACGACAACC
 CCGACTTCGACAACCTCGACATCGTGGCACGGGATGAGGAGGAGAGGTACTTTGATGAGGAAGAACCTGAGGATG
 CGCCCAGCCCAGAGCTGGATGGGGACTGATGGCCGCCACCCTTCCACCGCCTGCCCCATCCCCATCCCCAACAA
 GGCAGCTGATTCCAGGCCTGCTCAGTGACCCTTTCTCTAGGGGGACATCAGGGCAGTGCCCCACAACCCACACAC
 ACCACCATCTCACTGGGTCTAGTCTCATCTCAGACAACCCCCACCCCCACTGTTTCTGGGGTCCCTTTCTCATC
 TCTCCACCCTGTCTCTGCTCTGTCTTTCTTGGTGTCTGTCTGGGCTTCTTTCTGTCTCTTTCTGTCTTTCTG
 TCTCTCTCCCTACCCCCGCTCCCTCTTTCCAGTGCTCTGGCTGGCTGTCTCTCCCTTTCTCCCCCTCTCTCTCTG
 CCTTAGGCTCTGTCTCCACCGCAGGGCCCCAAGGTGAAAGTCTCCCTTGCCGGAGGCCAGCTGGCAGGGCCTTT
 CGTGGCTGGAAGTGGCCAGTTTGGTTCCGGTGCTGACCCCTAGGCCCCAGCGCAGCTGCCTCCCGTGCTGTCTGT
 TCCCCCTCTCTGTTTATGTCTGCGCTGTGTCTCACACTCAGAGCCTCCTTGCTTCTGTTAGGTTCCCATCTCTC
 CTTCTGCCTCACTCTGGGCCTCTTTCTTTCTACTTTGTACATTTCCACCTCTCTAGGCCTCTGCTCTCACTGTCCCT
 CTCTGTCTGTCTCTCAGCCTTTATCTCTGGGTTTTGATCCCCCACTCCAGGCCTCTGGGCCCTTCTTCCCCCTTC
 CCTCAAACCTGGCTGCTATAGGCAGCAGAACCCTGACCCTAGAGTAATACAGCCCCAGGGGAGGGAGGAGACCCC
 AGGCAGGGAGGATGGGGGCAGCTCTCTTCTCTCCCCAGGACCCAGGCTGTGGATCACGGGGCCTGCCAGCTTGAG
 TGTAGAGGGAGGGGGGACTCTACCCCTTCTCAGCCCCACCAGCCCCCTCTGCCCAACCACAATTTTCCCTTCCCTC
 CGCCTTCTCTCCCTCTCCTGTTTACACTCCCCAAATGCGCACAGGCTGTTATCATGGGTCTGAGTCATCCCAC
 ACACAGCCTGCCCCAGCGTCCCTGCCCCCAGCTGGCCGCAGGGGCCCGCCCCATGGAGCCCCCTGCCGCCCTGGGC
 TAATGGGAGCCAGATGGCCGCCTGGTGACTCAGCCACCGGGCCTGTGGGAACCCAGGCGTCCCGCCTTCCCATGC
 CCCCACACCCGGCTCCTGCTCCCCCAGCAGACACACACAGGAGGGCCTGGCCACTGTTGAGGGGGGCACACAGGGC
 AAGGGTCACCAAGTCGGGGCCTAGGGACTCCTCATGCCTCTGAGATGGAATGGTGGTATCCTGCCGTGGCCAAGC
 CTGAAGGACCTCAAACCTGCCTCCTGGAGTCCACGGTTCCTGACCTCCGAGCCTCAGCTATGCCCTCTGGGTCA
 ACCAGAATTAGAGCCAGACAGGGAAAGTGAGAGCTGGATGGAGGCAGACAAGATGCTCAGAGCGACTATTAAAGA
 ACGAAAGCCTCTGCTACGGAGCGCTTCTGTCTCTGTCTCAGGCCCGAGCGAAGTGCTGACACCGGGTTGGATCCT
 CAGATGGCCCCATGAACTAGTGAAGTGGGTCAAAGGAGGCCTGGAAAGATGTTGCTTCTCAAGGCCACTCGGCC
 ATCAGAGGCAGAAATGAAAACAGGAACCCAGGCCTAGAATCACAAAGGTCTTAGAAACCACTTGGCTGTCTGGCCT
 CTCAGGTGTCTAGGGCCATCCAGAGTGAGACAGCATTGGAGGGACAAGTGTGCATGCAGATGTCTCAGACGGGAA
 GGTTTGAGAAGGGTCAGATGGTAGGCGGGCCTAACAAAGGGCTCCGTGCTAGCCACTGTCCCGCACACAGACAGGA
 TCAGGTCACTCTTGATATGGAGATCAGTCCCCAAATCACTGAATTGTCCCAGCAGTGCTATGCCCTAGGTACTACC
 AATATCACTCTCTATTTTCCCAGAGGAGGAAGCAGCAGCTAGACTCCAGGACCTTGGGGTCATATCTCTCAGAAA
 GCCAAGAGTGCAGGATGAGAGCTGTCTGTCTTACCTGCCTGTATTTGTGCCCCATTTTAAAGAGCAGAGGGC
 CTGGGCCACAGGAAAGGTATCAGCCCTTGGTGATAGGCACATTTTTTACCAGTCTATCATTTGGTCATTAAATTT
 GTTTACAATATACTTTTGCTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5452

MEAVATATAAKEPDKGCIEPGPGHWGELSRTVPVPSKPQDKVEAAEATPVALDSDTSGAENAAVSAM LHAVAASRL
PVCSQQQGEPLTEHEKVAILAQLYHEKPLVFLERFRTGLREEHLACFGHVVRGDHRADFYCAEVARQGTARPRTL
RTRLNRNRYAALRELIQGGEYFSDEQMRFRAPLLYEQYIGQYLTQEELSARTPTHQPPKPGSPGRPACPLSNLLL
QSYEERELQQRL LQQQEEEEACLEEEEEEEEDSDEEDQSRSGK DSEAWVPDSEERLILREEFTSRMHQRFLDGDGD
FDYSTVDDNPDFDNLDIVARDEEERYFDEEEDAPSPELDGD

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FIGURE 5453

ACCTCCCTCCGCGGAGCAGCCAGACAGCGAGGGCCCCGCGCGGGGGCAGGGGGGACGCCCCGTCCGGGGCACCCC
CCCCGGCTCTGAGCCGCCCCGCGGGGCCGGCTCGGCCCGGAGCGGAGGAAGGAGTCGCCGAGGAGCAGCCTGAGGC
CCCAGAGTCTGAGACGAGCCGCCGCCGCCGCCCACTGCGGGGAGGAGGGGGAGGAGGAGCGGGAGGAGGGACG
AGCTGGTCGGGAGAAGAGGAAAAAACTTTTGAGACTTTTCCGTTGCCGCTGGGAGCCGGAGGCGCGGGGACCTC
TTGGCGGACGCTGCCCCGCGAGGAGGCAGGACTTGGGGACCCAGACCGCCTCCCTTTGCCGCCGGGGACGCTT
GCTCCCTCCCTGCCCCCTACACGGCGTCCCTCAGGCGCCCCCATTCGGGACCAGCCCTCGGGAGTCGCCGACCCG
GCCTCCCGCAAAGACTTTTCCCAGACCTCGGGCGCACCCCTGCACGCCGCTTCATCCCCGGCCTGTCTCCTG
AGCCCCGCGCATCCTAGACCCTTTCTCCTCCAGGAGACGGATCTCTCTCCGACCTGCCACAGATCCCCATTCA
AGACCACCCACCTTCTGGTACCAGATCGCGCCCATCTAGGTTATTTCCGTGGGATACTGAGACACCCCGGTCCA
AGCCTCCCTCCACCCTGCGCCCTTCTCCCTGAGGACCTCAGCTTTCCCTCGAGGCCCTCCTACCTTTTGCCGG
GAGACCCCAAGCCCTGCAGGGGCGGGGCTCCCCACCACACAGCCCTGTTGCGCTCTCGGCAGTGCCGGGGG
GCGCCGCTCCCCCATGCCGCCCTCCGGGCTGCGGCTGCTGCCGCTGCTGCTACCGCTGCTGTGGCTACTGGTGC
TGACGCTTGGCGGGCGCGGCGGACTATCCACTGCAAGACTATCGACATGGAGCTGGTGAAGCGGAAGCGCA
TCGAGGCCATCCGCGGCCAGATCCTGTCCAAGCTGCGGCTCGCCAGCCCCCGAGCCAGGGGGAGGTGCCGCCG
GCCGCTGCCCGAGGCCGTGCTCGCCCTGTACAACAGCACCCGCGACCGGTGGCCGGGGAGAGTGCAGAACCGG
AGCCCGAGCCTGAGGCCGACTACTACGCCAAGGAGGTCACCGCGTGCTAATGGTGGAAACCCACAACGAAATCT
ATGACAAGTTCAAGCAGAGTACACACAGCATATATGTTCTTCAACACATCAGAGCTCCGAGAAGCGGTACCTG
AACCCGTGTTGCTCTCCCGGGCAGAGCTGCGTCTGCTGAGGCTCAAGTTAAAGTGGAGCAGCACGTGGAGCTGT
ACCAGAAATACAGCAACAATTCTGGCGATACCTCAGCAACCGGCTGCTGGCACCCAGCGACTCGCCAGAGTGGT
TATCTTTTGATGTCACCGGAGTTGTGCGGCAGTGGTTGAGCCGTGGAGGGGAAATTGAGGGCTTTGCGCTTAGCG
CCCACTGCTCCTGTGACAGCAGGGATAACACACTGCAAGTGGACATCAACGGGTTCACTACCGGCCCGGAGGTG
ACCTGGCCACCATTATGCGCATGAACCGGCCCTTTCTGCTTCTCATGGCCACCCCGCTGGAGAGGGCCAGCATC
TGCAAAGCTCCCGGCACCGCCGAGCCCTGGACACCAACTATTGCTTCAGCTCCACGGAGAAGAACTGCTGCGTGC
GGCAGCTGTACATTGACTTCCGCAAGGACCTCGGCTGGAAGTGGATCCACGAGCCCAAGGGCTACCATGCCAACT
TCTGCCTCGGGCCCTGCCCCTACATTTGGAGCCTGGACACGCAGTACAGCAAGGTCTGGCCCTGTACAACCAGC
ATAACCCGGGCGCCTCGGCGGCGCCGTGCTGCGTGCCGACGGCGCTGGAGCCGCTGCCATCGTGTACTACGTGG
GCCGCAAGCCCCAAGGTGGAGCAGCTGTCCAACATGATCGTGCGCTCCTGCAAGTGCAGCTGAGGTCCCGCCCCG
CCCGCCCCGCCCCGCGAGGCCCGCCCCACCCCGCCCCGCCCCGCTGCCTTGCCCATGGGGGCTGTATTTAAGG
ACACCCGTGCCCAAGCCACCTGGGGCCCCATTAAAGATGGAGAGAGGACTGCGGATCTCTGTGTCATTGGGCG
CCTGCCTGGGGTCTCCATCCCTGACGTTCCCCCACTCCCACTCCCTCTCTCTCCCTCTCTGCCTCCTCCTGCCTG
TCTGCACTATTCTTTGCCCGCATCAAGGCACAGGGGACAGTGGGGAACACTACTGTAGTTAGATCTATTTAT
TGAGCACCTTGGGCACTGTTGAAGTGCCTTACATTAATGAACCTATTAGTCACCATAGCAACACTCTGAGATGC
AGGGACTCTGATAACACCCATTTTAAAGGTGAGGAAACAAGCCAGAGAGGTTAAGGGAGGAGTTCCTGCCACC
AGGAACCTGCTTTAGTGGGGGATAGTGAAGAAGACAATAAAAGATAGTAGTTCAGGCCAGGCGGGGTGGCTCACG
CCTGTAATCCTAGCACTTTTGGGAGGCAGAGATGGGAGGATTACTTGAATCCAGGCATTTGAGACCAGCCTGGGT
AACATAGTGAGACCCTATCTCTACAAAACACTTTTAAAAAATGTACACCTGTGGTCCAGCTACTCTGGAGGCTA
AGGTGGGAGGATCACTTGATCCTGGGAGGTCAAGGCTGCAG

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FIGURE 5454

CAGCCGCACGTGGGCTCGGCGCGGATGGAGGAGGAGACGCATACTGACGCCAAAATCCGTGCTGAAAATGGAACAG
GGTCCAGCCCTCGGGGTCCTGGCTGCAGCCTCCGGCACTTTGCCTGCGAACAGAACCTGCTGTCGCGGCCAGATG
GCTCTGCTTCCTTCCTGCAAGGTGACACCTCTGTCTGGCGGGTGTGTACGGGCGGGCCGAGGTGAAGGTCAGCA
AAGAGATTTTCAACAAGGCCACACTCGAAGTGATCCTGAGGCCGAAGATTGGGCTGCCTGGTGTTCAGAGAAGA
GCCGGGAGCGGCTGATCAGGAACACGTGCGAGGCGGTGGTGTGGGCACGTTGCACCCCCGCACCTCCATCACCG
TGGTGCTGCAGGTTGTGAGCGATGCCGGCTCTCTCTGGCCTGTTGTCTGAATGCCGCTGCATGGCATTGGTGG
ATGCAGGTGTGCCCATGCGGGCTCTCTCTGTGGGGTCGCCTGCGCCCTGGACTCTGATGGGACCCCTCGTGCTGG
ATCCTACATCCAAGCAAGAAAAGGAGGCCCGGGCAGTCCTGACCTTTGCCCTGGACAGCGTGGAACGGAAGCTGC
TGATGTCCAGCACCAAGGGGCTCTACTCAGACACTGAGCTCCAGCAGTGCCTGGCTGCGGCCAGGCCGCTTCGC
AACACGTCTTCCGTTTCTACCGGGAATCGCTGCAGAGGCGTTACTCCAAGAGCTGAGGCAAGCTGGGGCAAGGGG
CCGCTCCCATTGCCTCCACCCACTCACCCCTACAGCCTGAAGCAAACCAGCAGCCCAGCCTTGCTCTCTGACC
CATGGGCTCCTTGAGCCTGCAGCTCTGTAACCACAGGGCTCCTGTGGGGAGGCCTTGGCCTGTGACAGCCCCAG
GCCTGGGGGCACAGATCCCCCAGCAAGGATAACATTCAAAGGAGCTCACATTTATGGAATGGATGAATCAATAA
ATTAATTCACTTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5455

MEEETHDAKIRAENG TGSSPRGPGCSLRHFACEQNLLSRPDGSASFLOGDTSVLAGVYGPAEVKVSKEIFNKAT
LEVILRPKIGLPGVAEKSRRERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRA
LFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDTELQQCLAAAQAASQHVFRFYR
ESLQRRYSKS

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FIGURE 5456

GTTAGCCAAGATGGCGGTAGCGATCGCTGCAGCGAGGGTCTGGCGGCTAAACCGTGGTTTGAGCCAGGCTGCCCT
CCTGCTGCTGCGGCAGCCTGGGGCTCGGGGACTGGCTAGATCTCACCCCCCAGGCAGCAGCAGCAGTTTTCATC
TCTGGATGACAAGCCCCAGTTCCCAGGGGCTCGGGGAGTTTATAGATAAGTTGGAATTCATCCAGCCCAACGT
CATCTCTGGAATCCCCATCTACCGCGTCATGGACCGGCAAGGCCAGATCATCAACCCAGCGAGGACCCCCACCT
GCCGAAGGAGAAGGTGCTGAAGCTCTACAAGAGCATGACACTGCTTAACACCATGGACCGCATCCTCTATGAGTC
TCAGCGGCAGGGCCGGATCTCCTTCTACATGACCAACTATGGTGAGGAGGGCACGCACGTGGGGAGTGCCGCCGC
CCTGGACAACACGGACCTGGTGTGTTGGCCAGTACCGGGAGGCAGGTGTGCTGATGTATCGGGACTACCCCTGGA
ACTATTCATGGCCCAGTGCTATGGCAACATCAGTGACTTGGGCAAGGGGCGCCAGATGCCTGTCCACTACGGCTG
CAAGGAACGCCACTTCGTCACTATCTCCTCTCCACTGGCCACGCAGATCCCTCAGGCGGTGGGGGCGGCGTACGC
AGCCAAGCGGGCCAATGCCAACAGGGTCGTCACTGTTACTTCGGCGAGGGGGCAGCCAGTGAGGGGGACGCCCA
TGCCGGCTTCAACTTCGCTGCCACACTTGAGTGCCCCATCATCTTCTTCTGCCGGAACAATGGCTACGCCATCTC
CACGCCACCTCTGAGCAGTATCGCGCGATGGCATTGCAGCACGAGGCCCCGGGTATGGCATCATGTCAATCCG
CGTGGATGGTAATGATGTGTTTGCCGTATACAACGCCACAAAGGAGGCCCCGACGGCGGGCTGTGGCAGAGAACCA
GCCCTTCCTCATCGAGGCCATGACCTACAGGATCGGGCACCACAGCACCAGTGACGACAGTTACGCGTACCGCTC
GGTGGATGAGGTCAATTACTGGGATAAACAGGACCACCCCATCTCCCGGCTGCGGCACTATCTGCTGAGCCAAGG
CTGGTGGGATGAGGAGCAGGAGAAGGCCCTGGAGGAAGCAGTCCCGCAGGAAGGTGATGGAGGCCTTTGAGCAGGC
CGAGCGGAAGCCCAAACCCAAACCCCAACCTACTCTTCTCAGACGTGTATCAGGAGATGCCCCCCAGCTCCGCAA
GCAGCAGGAGTCTCTGGCCCGCCACCTGCAGACCTACGGGGAGCACTACCCACTGGATCACTTCGATAAGTGAGA
CCTGCTCAGCCCACCCCCACCCATCCTCAGCTACCCCGAGAGGTAGCCCCACTCTAAGGGGAGCAGGGGGACCTG
ACAGCACACCACTGTCTTCCCCAGTCAGTCCCTCTAAAATACTCAGCGGCCAGGGCGGCTGCCACTCTTCACCC
CTGCTCCTCCCGGCTGTTACATTGTGAGGGGACAGCATCTGCAGCAGTTGCTGAGGCTCCGTCAGCCCCCTCTTC
ACCTGTTGTTACAGTGCCCTTCTCCAGGGGCTGGGTGAGGGCACATTCAGGACTAGAAGCCCTCTGGGCATGGG
GTGGACATGGCAGGTGAGCCTGTGGAACCTGCGCAGGTGCGAGTGGCCAGCAGAGGTCACGAATAAACTGCATCT
CTGCGCCTGGCTCTCT

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FIGURE 5457

MAVAIAAARVWRLNRGLSQAALLLLRQPGARGLARSHPPRQQQFSSLDDKPQFPGASAEFIDKLEFIQPNVISG
IPIYRVMDRQGQIINPSEDPHLPKEKVLKLYKSMTLLNTMDRILYESQRQGRI SFYMTNYGEEGTHVGSAAALDN
TDLVFGQYREAGVLMYRDYPLELFMAQCYGNISDLGKGRQMPVHYGCKERHFVTISSPLATQIPQAVGAAYAAKR
ANANRVVICYFGEAASEGDAHAGFNFAATLECP IIFFCRNNGYAI STPTSEQYRGDGI AARGPGYGIMSIRVDG
NDVFAVYNATKEARRRAVAENQPFLIEAMTYRIGHHSTDDSSAYRSVDEVNYWDKQDHPISRLRHYLLSQGWWD
EEQEKAWRKQSRRKVMEAFEQAERKPKPNPNLLFSDVYQEMPAQLRKQESLARHLQTYGEHYPLDHFDK

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FIGURE 5458

AGCAAGATGGCGGCTCCCTGGGCGTCCCTGCGCCTGGTCGCCCCCATGTGGAATGGGCGTATCAGGGGCATCCAT
CGCCTGGGTGCGGCAGTGGCCCCAGAGGGCAGTCAGAAGAAGAAAAGGACAATACTCCAGTTCCTGACCAACTAT
TTCTACGATGTGGAGGCTCTGAGGGATTACTTGCTCCAAAGGGAGATGTACAAGGTGCATGAGAAAAATCGATCT
TACACCTGGCTGGAGAAGCAACATGGTCCATACGGCGCAGGTGCCCTTTTTCATCCTGAAGCAGGGAGGCGCAGTC
AAGTTTCGAGACAAGGAGTGGATCAGGCCAGATAAGTATGGCCATTTCTCTCAGGAGTTCTGGAATTTCTGTGAA
GTGCCTGTGCAAGCTGTGGATGCCGGTGACTGTGACATCAACTACGAGGGCCTGGATAACCTCCTCCGCCTGAAG
GAGCTCCAGTCCCTTGTCGCTGCAGCGCTGCTCCACGTGGACGACTGGTGTCTCAGCCGCTCTACCCACTGGCC
GACTCGTTGCAGGAGCTCTCGCTGGCCGGTTGCCCCCGCATCTCCGAACGGGGCCTCGCCTGCCTCCACCACCTC
CAGAACCTCCGCAGGCTGGACATCTCGGACCTCCCTGCCGTGTCCAACCCTGGCCTCACTCAGATATTGGTGGAG
GAGATGCTGCCCAATTGCGAGGTTGTGGGAGTCGACTGGGCTGAGGGCCTGAAGTCAGGGCCGGAGGAGCAGCCT
CGGGACACAGCCAGCCCTGTCCCTGCCCTAGCCTTTAGCCCTGTCCCCACTCACGTGGCTTCTCAGCGGGCTGCAT
GGAATGTCTGGTAGCTCACCACACTTCTGGCTTCCATTTGTCTTCACTCAACGTCAGGGTGGGGGAGTGGTGTCTG
GCCAATCACAGGAGAGAGCGTGAGTTCCAGTATTTATTCCTGGCTGCCCTTGGCTAAAGGTCACAGCTCCTGTC
ACCCTGTCAGGCAGCCCTTTCCATGCCCTGTTTCAGGCCTGGGGAGGTAAAGGCTCAGGCTGTTAGTAGCCGCAG
AGAGCCACACTCACCTTGTGAGGAGACTCTTCTCAAAGTGTCTTATGTGAGTGCCTGCTTCTTGCAGGGA
CCCTGACTGACACAGGGGCTACTACTGACACTTTACAGGGATGGTCTCCCCCGTGCAGGGCCGCTGTGCCACT
GCAGGACATGCAGCATCCTTCGCCCCACTCCACTCACTAAAGGCCAGCGCACCCAGGCCCATAGTATTGCTGG
TTATGGATTTATTGACTTTATGTTCCAAATTCAGCTTTTTCAGTTGGCAGTTTTTTGAAAGGGGATAAGCTTTGT
CAGTAGAGGGCACCAACAGGCATTATAGGAGGAAAGGCGCCTCCTTCGTGGTTCTTGTGGTTGTGCTTCTGCC
TCTGGACGCCGAGTGCATGTGGCTTCCCCAGCACCCAGCTCCTGAAGCACAGGCGGTGAGCAGCTGCCCTTGG
CACCTCCAGCCCTCAGAAGTTGCGTAGGAGACACAGCGCCTCCACTGAGGCACCTCTCTGGGAATAACGTTCCC
CAGCACCCCAAATGGATTTCCAGTCAATTCAGAAGCATTTTACCAGTGAAGCCCTCATTATTCCAGTTCAGTGT
AAAGCCAGTAATTCTCTATATTAACTTTCCCTGTTCAAGTT

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FIGURE 5459

MAAPWASLRLVAPMWNGRIRGIHRLGAAVAPEGSQKKKRTILQFLTNYFYDVEALRDYLLQREMYKVHEKNRSYT
WLEKQHGPYGAGAFFILKQGGAVKFRDKEWIRPDKYGHFSQEFWNFCEVPVEAVDAGDCDINYEGLDNLLRLKEL
QSLSLQRCSHVDDWCLSRLYPLADSLQELSLAGCPRISERGLACLHHLQNLRRLDISDLPAVSNPGLTQILVEEM
LPNCEVVGVDWAEGLKSGPEEQPRDTASPVPA

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FIGURE 5460

GGAGGCTGCAACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGAT
CACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGT
GGGATCCAGCTGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAA
GCGGAAAAAGCTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAAACGGGCCTTAAAAGATGAAGAAAAG
ATGGAACTCCAGGAAATCCAACTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTG
GCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTACTC
TCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGA
GTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAAGATAAACTGAAATGCACCAAAGG
GGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTTCTCCTTTCGCCGCCCCCTCCTTCGCCGCCCGCT
CCTTCCCTGTATCTTTTAAAGTTTCTTTCCTACCCTGTCCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTA
GGTGATACCTACAGCTTATTGGCTTAATATGTACTCTCCTTTGATGTGGTCTACTTGGGGCCGATTGGGAGAA
AGAGAAATCAATAGTGCAACTGTTTTGATAATGAATATTGACAAGTGTCTTTTGAATAAAGAACCAGTCC

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FIGURE 5461

ACGCCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATC
GAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAG
CGAGAAGTTGAGGGAGAAAGGTGGGCCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGC
TGGTTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAG
CTGCTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCC
AGGAAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGT
TGGTGATCTTTAACTGGAAGGCTGCTTTCTCCTTTTCGCCGCCCTCCTTCCGCCGCCCGCTCCTTCCCTGTGTC
TTTTTCACCAAACCTGTCCGCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATT
TAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATGTACACATTTTGTAATTACCTCTTT
TGTTGTTTTGTAGCAACCTTTTGTAACATTCCATATAATACCACAGCCCTGAAGCAGCGATCGAATCCCTTTC
TCACTTT

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FIGURE 5462

CCGATCGGAGGAGGCAGGAACCGGAGCTCTAGCAGTAGCTGGGTGGGCACCATGGCTGGGATCACCACCATCGAG
GCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGCCTCCAGCGA
GAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGG
TTGAAGAGGAGCTGGACCGTGCTCAGGAGCACCTGGCTACTGCCCTGCAAAAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACCTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAAAAGAAGATTGTGTTTTTGCCACTGATTTAGCCATGTGAAACTCATCTCATTACCCTTTTCT
GAGTTTGAAGCTGCTGTCTCTACAAGTGCCATCTCATTGTGCTTTGTATCAGTCAGTGCTGGAGAAATCTTGAAT
AGCTTATGTACAAAACTTTT

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FIGURE 5463

TCACCACCATCGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTG
AGCGCCTCCAGCGAGAAGTTGAGGGAGAAAGGTGGGCCCGGGAACAGAGGTAAGAAGGTTATTGAAAACCGGGCC
TTAAAAGATGAAGAAAAGATGGAATCCAGGAAATCCAATCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGAT
AGGAAGTATGAAGAGGTGGCTCGTAAGTTGGTGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAG
CTGGCAGAATCCCTTTGCCGAGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCT
GCTGAAGAAAAGTACTCTCAAAAAGAAGACAAATATGAGGAAGAGATCAAGATTCTTACTGATAAAAATAAGGAG
GCGGAGACCCATGCTGAGTTTGCTGAGAGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAA
CTGAAATGCACCAAAGGGGAGCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG
TAGAACGCCTCAGTCTCACCTGCTGCTGCTCCTCCCTCTTCCCGGAGATTCCAGCTGGGCTAGAGGCTGAGCAC
CTTTGAAACAACATTTAAGGGAATGTGAGCACAATGCATAATGTCTTTAAAAAGTATGTTGTGATG

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FIGURE 5464

MMQRSELSASSEKLREKGGPGNRGKKVIENRALKDEEKMELQEIQLREAKHIAEEADRKYEEVARKLVIIEGDLE
RTEERAELAESLCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKILTDKIKEAETHAEFAERSVAKLEKT
IDDLEDKCLKCTKGEHLCTQRMLDQTLLDLNEM

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FIGURE 5465

GCTGAGGCTGAGGTGGCCTCCTTGAACGTGGGATCCAGCTGGTTGAAGAGGAGCTGGAAGAAGCGGAAAAAGCTG
CTGATGAGAGTGAGAGAGGTAAGAAGGTTATTGAAAACCGGGCCTTAAAAGATGAAGAAAAGATGGAACTCCAGG
AAATCCAACCTCAGAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCTCGTAAGTTGG
TGATCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGGCAGAATCCCTTTGCCGAGAGATGGATG
AGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAAAAAGAAGACA
AATATGAGGAAGAGATCAAGATTCTTACTGATAAAATAAAGGAGGCGGAGACCCATGCTGAGTTTGCTGAGAGAT
CGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGGGGAGCACCTCTGTA
CACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAACGCCTCAGTCTCACCCCTGCTGCTGCT
CCTCCCTCTGAACCAGACTCCGCCTGAGGCCAGCCTGCCCGAAGCTGACCTTTAATTGAGGGCTGATCTTTAACT
GGAAGGCTGCTTTCTCCTTT

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FIGURE 5466

ATGTCTAAGTCAGAGTGTCCCGAAGAGCCTGAACAGCTGAGGAAGCTCTTCATTGGAGGATTGAGCTTTGAAACA
ACTGATAAGAGCCTGAGAAGCCATTTTGAGCAATGGAGAATGCTCACGGACTGTGTGGTGGATAGAAGAGTTGTG
GAACCAAAGAGAGCTGTCTCAAGAGAAGATTCTCAAAGACCAGAACATCACCTAAGAGATTATTTTGAACAGTAT
GGAAAAATTGAAGTGACTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCCTTTCTAACCTTT
GATGACCGTGACTCCGTGGGTGGCTATGGCGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAA

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FIGURE 5467

MSKSECPEEPEQLRKLF IGGLSFETTDKSLRSHFEQWRMLTDCVVDRRVVEPKRAVSREDSQRPEHHLRDYFEQY
GKIEVTEIMTDRGSGKKRGFAFLTDDRDSVGGYGGSSSSSSSYGSGRRF

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FIGURE 5468

CGCCCGACTTGTGCGCCCGGGAAACCCCGTCGTTCCCTTTCCCTGGCTGGCAGCGCGGAGGCCGCACGATGCCT
GGAGTTACTGTAAAAGACGTGAACCAGCAGGAGTTCGTGAGAGCTCTGGCAGCCTTCCTCAAAAAGTCCGGGAAG
CTGAAAGTCCCCGAATGGGTGGATACCGTCAAGCTGGCCAAGCACAAAGAGCTTGCTCCCTACGATGAGAACTGG
TTCTACACGCGAGCTGCTTCCACAGCGCGGCACCTGTACCTCCGGGGTGGCGCTGGGGTTGGCTCCATGACCAAG
ATCTATGGGGGACGTGAGAGAAACGGCGTCATGCCCAGCCACTTCAGCCGAGGCTCCAAGAGTGTGGCCCGCCGG
GTCCTCCAAGCCCTGGAGGGGCTGAAAATGGTGGAAAAGGACCAAGATGGCGGCCGAAACTGACACCTCAGGGA
CAAAGAGATCTGGACAGAATCGCCGGACAGGTGGCAGCTGCCAACAAGAAGCATTAGAACAACCATGCTGGGTT
AATAAATTGCCTCATTTCGTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5469

MPGVTVKDVNQEFVRALAAFLKKSGLKVPEWVDTVKLAKHKELAPYDENWFYTRAASTARHLYLRGGAGVGSM
TKIYGGRQRNGVMPSHFSGSKSVARRVLQALEGLKMVEKDQDGGGRKLTPQGQRDLDRAGQVAAANKKH

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FIGURE 5470

GGGCGCCCCGCCGGTCACTTCCGCGCGGACACCAGCCTTGAGAGCCCAGGGAGATGGAAGACTTCGCCCCGAGGG
GCGGCCTCCCCAGGCCCCCTCCGCGCCTGGCCTGGTTCCCGTCAGCATCATCGGGGCTGAGGATGAGGATTTTGAG
AACGAGCTGGAGACAACTCAGAAGAGCAAAACAGCCAGTTCCAGAGCCTGGAGCAGGTGAAGCGGCGCCAGCC
CACCTCATGGCCCTCCTGCAGCACGTGGCCCTGCAGTTTGAGCCAGGACCCCTGCTTTGCTGTCTGCATGCCGAC
ATGCTGGGCTCACTGGGCCCAAGGAGGCCAAGAAGGCCCTTCTGGACTTCTACCACAGCTTCTGGAGAAGACA
GCGGTTCTCCGGGTGCCGGTCCCTCCCAACGTCGCCCTTTGAACCTGACCGCACTAGGGCTGACCTCATCTCCGAG
GATGTCCAGCGGCGGTTTCGTGCAGGAGGTGGTGCAAAGCCAGCAGGTAGCCGTGGGCCGGCAGCTGGAGGACTTC
CGTTCCAAGCGGCTCATGGGCATGACGCCCTGGGAGCAGGAGCTGGCCAGCTGGAGGCTTGGGTTGGGCGGGAC
CGAGCCAGCTACGAGGCCCGGGAGCGGCACGTGGCGGAGCGGCTGCTCATGCACCTGGAGGAGATGCAACATACC
ATCTCTACCGACGAAGAAAAGAGTGCTGCCGTGGTCAACGCCATTGGCCTGTACATGCCCCACCTTGGGGTGCGG
ACCAAGAGTGGAGACAAGAAGTCGGGGAGGAACCTTCTCCGGAAGGTGATGGGGAACCGGCGGTCGGACGAG
CCTGCCAAGACCAAGAAGGGGCTGAGCAGCATCCTGGATGCCGCCCGCTGGAACCGGGGAGAGCCCCAGGTTCCA
GATTTTCGACACCTCAAAGCAGAGGTTGATGCCGAGAAGCCAGGTGCTACAGACCGGAAGGGAGGCGTGGGGATG
CCCTCTCGGGACCGGAATATCGGGGCTCCTGGGCAGGACACCCCTGGAGTCTCTGACACCTCTGTCCCTGGAC
AGCCAGACCGGGAACAGGTGCTGACGCCCCCTGGAGCTGGGGGACTCATCCCCGAGGGGCCAATGAGCCTG
GAGTCTTGGCGCCCCAGAGAGTACCGACGAGGGGGCCGAAACCGAGAGCCCCGAGCCTGGAGATGAGGGGGAG
CCGGGGCGGTGCGGACTGGAGCTTGAACCAGAAGAGCCTCCCGGCTGGCGGGAACCTGTCACCCCCAGACACCTG
CACAGCCTGCCAAGAGCCAGGTGAAGCGGCAGGAGGTCATCAGCGAGCTGCTGGTGACAGAGGCGGCCACGTG
CGCATGCTGCGGGTGTGTCACGACCTCTTCTTCCAGCCCATGGCAGAATGCCTGTTCTTCCCTTGGAGGAGCTG
CAGAACATCTTCCCCAGCCTGGACGAGCTCATCGAGGTGCATTCCCTGTTCTCGATCGCCTGATGAAGCGGAGG
CAGGAGAGTGGCTACCTCATCGAGGAGATCGGAGACGTGCTGCTGGCCCCGTTTATGGTGCTGAGGGCTCCTGG
TTCCAGAAAATCTCCTCCCGCTTCTGCAGCCGCCAGTCATTGCTTAGAGCAGCTCAAAGCCAAGCAACGCAAG
GACCCCTCGGTTCTGTGCCTTCGTGCAGGAAGCTGAGAGCCGCCCGCGGTGCCGCCGCTGCAGCTGAAGGACATG
ATCCCCACGGAGATGCAGCGGCTGACCAAGTACCCCTGCTCCTGCAGAGCATCGGGCAGAACACAGAAGAGCCC
ACAGAACGGGAGAAAGTGGAGCTGGCAGCCGAGTGCTGCCGGGAAATCTACACCAGCTCAACCAAGCCGTGCGT
GACATGGAGGACCTGCTGAGGCTCAAGGACTATCAGCGGCGCTGGACTTGTCCACCTTCGGCAGAGCAGCGAC
CCTATGCTGAGCGAGTTCAAGAACCTGGACATCACCAAGAAGAAATGGTCCACGAGGGCCCACTGACGTGGCGG
GTGACTAAGGACAAGGCAGTGAGGAGTGATGTGCTGCTGCTGGACGACCTGCTGCTGCTGCTCCAGCGCCAGGAC
GAGCGGCTGCTGCTCAAGTCCCATAGCCGACACTGACGCCCACGCCGATGGCAAGACCATGCTGCGGCCCGTG
CTGCGGCTCACCTCCGCCATGACCCGCGAGGTGGCCACCGATCACAAAGCCTTCTACGTCTTTTACCTGGGAC
CAGGAGGCCAGATATACGAGCTGGTGGCACAGACTGTGTCGGAGCGGAAAACTGGTGTGCTCTCATCACTGAG
ACTGCCGATCCCTGAAAGTCCCTGCCCCCTGCTCTCGCCCTAAGCCCCGGCCAGCCCCAGCAGCACCCGAGAA
CCCCCTCTCAGCAGCTCTGAGAACGGCAATGGTGGCCGAGAGACGTCTCCAGCTGATGCCCGGACCGAGAGAATC
CTCAGTGACCTCTGCCCTTCTGCAGACCAGCCCCGAGGGCCAGCTCGCTGCCACGGCCCTTCGGAAGTGCTG
TCCCTGAAGCAGCTTCTGTTTCCGGCGGAGGAAGACAATGGGGCGGGGCTCCTCGAGATGGGGATGGGGTCCCA
GGGGGCGGGCCCCCTGAGCCAGCACGGACCCAGGAAATCCAGGAGAACCTGCTCAGCTTGGAGGAGACCATGAAG
CAGCTGGAGGAGTTGGAGGAGGAATTTTGCCGCTGAGACCCCTCCTGTCTCAGCTTGGGGGGAACCTGTGCCCC
CAGCCTGGCTGCACCTGAGGTTCCCGCCCAGGAAGGCCCTTTTGCAAGAAGGAGAGGAATGGGGGAGAGGACGTGA
GGGACCACCCCCACCCACACAGCTGCCGACGATCTCACACCCGAGGGCCTGAGGAGAGGGAGCTGTGGGCCAC
GCCTGGGAGGGGCCCCAGCTGGGGTTACTGGCCCCGATGAGCCTCGGCCATCTCTCCCTCTGCCCTCTGCTTGG
GGGACTCAGGGCTCCATTCTGGAGGGCACACGGTGACCCGGGCCATCTCAGTATTGCTGTGGGGGCCACCCCT
CCACCCCCACCCCAAGTGCTTCGCTCTGTTTTTATACCCTGAATTGGAGGGTTTATTTTTTAATATATATTAT
CTAAGAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5471

MEDFARGAASPGPSRPGLVPVSIIGAEDEDFENELETNSEEQNSQFQSLEQVKRRPAHLMALLQHVALQFEPGPL
LCCLHADMLGSLGPKEAKKAFLDFYHSFLEKTAVLRVPVPPNVAFELDRTRADLISEDVQRRFVQEVVQSQQVAV
GRQLEDFRSKRLMGMPWEQELAQLEAWVGRDRASYEARERHVAERLLMHLEEMQHTISTDEEKSAAVVNAIGLY
MRHLGVRTKSGDKKSGRNFFRKKVMGNRRSDEPAKTKKGLSSILDAARWNRGEPQVPDFRHLKAEVDAEKPGATD
RKGGVGMPSRDRNIGAPGQDTPGVSLHPLSLDSPDREPGADAPLELGDSSPQGPMSSLES LAPPESTDEGAETESP
EPGDEGEPGRSGLELEPEEPPGWRELVPD TLHSLPKSQVKRQEVISELLVTEAAHVRMLRVLHDLFFQPMACEL
FFPLEELQNIFFSLDELIEVHSLFLDRLMKRRQESGYLIEEIGDVLLARFDGAEGSWFQKISSRFC SRQSFAL EQ
LKAKQRKDPRFC AFVQEAESRPRCRLQLKDMIPTQMRLTKYPLLLQSIGQNT EEP TEREKVELAAECCREILH
HVNQAVRDMEDLLRLKDYQRRDL SHLRQSSDPMLSEFKNLDITKKKLVHEGPLTW RVTKDAVEVHVLLDDLL
LLLQRQDERLLLKSHSRTLTPDPGKTMLRPVLR L TSAMTREVATDHKAFYVLF TWQEAQIYELVAQTVSERKN
WCALITETAGSLKVPAPASRPKPRPSPSSSTREPLLSSSENGNGGRETSPADARTERILSDLLPFCRPGPEGQLAA
TALRKVLSLKQLLFP AEEDNGAGPPRDGDGVPGGGPLSPARTQEIQENLLSLEETMKQLEEELEEEFCRLRPLLSQ
LGGNSVPQPGCT

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FIGURE 5472

CCGCCGCAGCCTCTGTGCGGTGGGACCAACGGACGGACGGACGGACGGACGGACCGCGCACCTACCGAGGCGCGGGCGCTGC
AGAGGCTCCCAGCCCAAGCCTGAGCCTGAGCCCGCCCGAGGTCCCCGCCCGCCCGCTGGCTCTCTCGCCGCG
GAGCCGCCAAGATGGGGGACAAGAAAGATGACAAGGACTCACCCAAGAAGAACAAGGGCAAGGAGCGCCGGGACC
TGGATGACCTCAAGAAGGAGGTGGCTATGACAGAGCACAAGATGTCACTGGAAGAGGTCTGCCGGAATACAACA
CAGACTGTGTGCAGGGTTTGACCCACAGCAAAGCCAGGAGATCCTGGCCCCGGGATGGGGCTAACGCACTCACGC
CACCGCCTACCACCCAGAGTGGGTCAAGTTTTCGCCGACGCTCTTCGGGGGCTTCTCCATCCTGCTGTGGATCG
GGGCTATCCTCTGCTTCTGCTTACGGTATCCAGGCGGGCACCAGGACGACCCCTCTGGTGACAACCTGTACC
TGGGCATCGTGTGGCGGCCGTGGTGATCATCACTGGCTGCTTCTCTACTACCAGGAGGCCAAGAGCTCCAAGA
TCATGGAGTCTTCAAGAACATGGTGCCCCAGCAAGCCTGGTGATCCGGGAAGGTGAGAAGATGCAGGTGAACG
CTGAGGAGGTGGTGGTTCGGGGACCTGGTGGAGATCAAGGGTGGAGACCGAGTGCCAGCTGACCTGCGGATCATCT
CAGCCACGGCTGCAAGGTGGACAACCTCCCTGACTGGCGAATCCGAGCCCCAGACTCGCTCTCCCGACTGCA
CTCAGACAACCCCTTGAGACTCGGAACATCACTTCTTTTCCACCAACTGTGTGGAAGGCACGGCTCGGGGCG
TGGTGGTGGCCACGGGCGACCGCACTGTCTATGGCCGTATCGCCACCCTGGCATCAGGGCTGGAGGTGGGCAAGA
CGCCATCGCCATCGAGATTGAGCACTTCATCCAGCTCATCACCGCGTGGCTGTCTTCTGGGTGTCTCTTCT
TCATCCTCTCCCTCATTTCTCGGATACACCTGGCTTGAGGCTGTCTATCTTCTCATCGGCATCATCGTGGCCAATG
TCCCAGAGGTCTGCTGGCCACTGTCACTGTGTGTCTGACGCTGACCGCCAAGCGCATGGCCCCGAAGAACTGCC
TGGTGAAGAACCTGGAGGCTGTAGAAACCTGGGCTCCACGTCCACCATCTGCTCAGATAAGACAGGGACCTCA
CTCAGAACCAGCATGACAGTTCGCCACATGTGGTTTGACAACCAGATCCACGAGGCTGACACCACTGAGGACCACT
CAGGGACCTCATTTGACAAGAGTTGCGACACCTGGGTGGCCCTGTCTCACATCGCTGGGCTCTGCAATCGCGCTG
TCTTCAAGGTGGTTCAGGACAACATCCCTGTGCTCAAGAGGGATGTGGCTGGGGATGCGTCTGAGTCTGCCCTGC
TCAAGTGCATCGAGCTGTCTCTGGCTCCGTGAAGCTGATGCGTGAACGCAACAAGAAAGTGGCTGAGATTCCT
TCAATTCACCAACAATAACAGCTCTCCATCCATGAGACCGAGGACCCCAACGACAACCGATACTGCTGGTGA
TGAAGGTGCCCGGAGCGCATCTGGACCGCTGTCCACCATCTGCTACAGGGCAAGGAGCAGCCTCTGGACG
AGGAAATGAAGGGCCTTCCAGAATGCCTACCTTGAGCTCGGTGGCTGGGCGAGCGCGTGTGGTTTCTGCC
ATTATTACCTGCCCGAGGAGCAGTTCCTCAAGGGCTTTCCTTCGACTGTGATGACGTGAACCTTACCACGGACA
ACCTCTGCTTTGTGGGCTCATGTCCATGATCGACCCACCCGGGCGAGCCGTCCCTGACGCGGTGGGCAAGTGTG
GCAGCGCAGGCATCAAGGTCACTGATGACCGGCGATACCCCATCACGGCCAAGGCCATTGCCAAGGGTGTGG
GCATCATCTCTGAGGGCAACGAGACTGTGGAGGACATCGCCCGGCTCAACATTCCCGTACGCAAGGTTAACC
CCCGGGATGCCAAGGCCTGCGTGTATCCACGGCACCAGCTCAAGGACTTCACTCCGAGCAATCGACGAGATCC
TGCAGAATCACACCGAGATCGTCTTCGCCCGCACATCCCCCAGCAGAAGCTCATCATTGTGGAGGGCTGTGAGA
GACAGGGTGAATTGTGGCTGTGACCGGGGATGGTGTGAACGACTCCCCGCTCTGAAGAAGGCCGACATTGGGG
TGGCCATGGGCATCGCTGGCTCTGACGTCTCCAAGCAGGCAGCTGACATGATCCTGCTGGACGACAACCTTTCCT
CCATCTGTCACAGGGGTGGAGGAGGGCCGCTGATCTTCGACAACCTAAAGAAGTCCATTGCCTACACCCTGACCA
GCAATATCCCGGAGATCAGGCCCTTCTGCTGTTTCATCATGGCCAACATCCCGCTGCCCCCTGGGCACCATCACCA
TCCTCTGCATCGATCTGGGCACTGACATGGTCCCTGCCATCTCACTGGCGTACGAGGCTGCCGAAAGCGACATCA
TGAAGAGACAGCCCAGGAACCCGCGGACGGACAAATTGGTCAATGAGAGACTCATCAGCATGGCCTACGGGCAGA
TTGGAATGATCCAGGCTCTCGGTGGCTTCTTCTTACTTTGTGATCCTGGCAGAAAATGGCTTCTTGGCCGGCA
ACCTGGTGGGCATCCGGCTGAACGGGATGACCGCACCGTCAATGACCTGGAAGACAGTTACGGGCAGCAGTGGA
CATAAGAGCAGAGGAAGGTGGTGGAGTTACCTGCCACACGGCCTTCTTTGTGAGCATCGTTGTCTGCTCAGTGGG
CCGATCTGATCATCTGCAAGACCCGGAGGAACCTCGGTCTTCAGCAGGGCATGAAGAACAAGATCCTGATCTTCG
GGCTGTTTGTAGGAGACGGCCCTGGCTGCCCTTCTGTCTACTGCCCCGGCATGGACGTGGCCCTGCGCATGTACC
CTCTCAAGCCCAGCTGGTGGTCTGTGCCCTTCCCTACAGTTTCTCTCATCTTCGTCTACGACGAAATCCGAAAC
TCATCCTGCGCAGGAACCCAGGGGGTGGGTGGAGAAGGAAACCTACTACTGACCTCAGCCCCACCACATCGCCC
ATCTCTTCCCCGTCCCCCAGGCCAGGACCGCCCTGTCACTCCCCCAATTTTGTATTCTGGGGGGAGGAGCCC
TCTCTTCTGTGGCCCCACCTTGGCCCCCACCCTCCACTATCTCTGCGCCCCCACTCTGGCTGGCTTCTCT
CCCCTGCCCCAAACCTCTCTCTCTCTTTTCTGTGTCACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
TCCCGCCCCAGCCACCTCCCTGGGCTCTTTTTTACTCCCTTCAGCCCCCGGCTGATGCCATCTCTGGTTCTGG
ACAATTATCAATATATCAGTGGGGAGAGAG

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FIGURE 5473

MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTPPPT
TPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPDSDNLYLGIVLAADVITGCFSSYYQEAKSSKIMES
FKNMVPQQALVIREGEKMQVNAEEVVVDLVEIKGGDRVPADLRISAHGCKVDNSSLTGESEPQTRSPDCTHDN
PLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILS
LILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNR
MTVAHMFNDQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRVDVAGDASESALLKCI
ELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLOQKEQPLDEEMK
EAFQNAYLELGGGLGERVLGFCHYYLPPEEQFPGGFAFDCDDVNFTTDNLFCFVGLMSMIDPPRAAVPDAVGKCRSAG
IKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLDKDFTEQIDEILQNH
TEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVT
GVEEGRILFDNLKKSIAYTTLTSNIPEITPFLLFIMANIPPLGTITILCIDLGTDMPAISLAYEAAESDIMKRO
PRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYQQWTYEQ
RKVVEFTCHTAFFVSIVVQWADLIICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKP
SWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETY

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FIGURE 5474

CCCGAGTCTCAGGAGCCTGCCTTACAGCAGGAGGTGCAGGCCTCGTCACCTGCAGAGGTGCCTGTGTCTCAGCCT
GACCCCTTGCCAGCTTCTGACCACAGTTACGAGCTGCGCAATGGTGAAGCCATTGGGCGGGATCGCCGGGGGCGC
AGGGCCCGGAGGAACAACAGTGGAGAAGCAGGCGGGGAGCCACACAGGAGCTCTTCTGCTCAGCCTGTGACCAG
CTCTTTCTCTCACCCACACAGCTACAGCAGCACCTGCGGAGTCACCGGGAGGGCGTCTTTAAGTGCCCCCTGTGC
AGTCGTGTCTTCCCTAGCCCTTCCAGTCTGGACCAGCACCTTGGAGACCATAGCAGCGAGTCACACTTCCTGTGT
GTAGACTGTGGCCTGGCCTTCGGCACAGAGGCCCTCCTCCTGGCCACCGGCGAGCCACACCCCGAATCCTCTG
CATTATGTCCATGTGGGAAGACCTTTGTCAACCTTACCAAGTTCCTTTATCACCGGCGTACTCATGGGGTAGGG
GGTGTCCCTCTGCCCACAACACCAGTCCCACCAGAGGAACCTGTCTATTGGTTTCCCTGAGCCAGCCCCAGCAGAG
ACTGGAGAGCCAGAGGCCCTTGAGCCCCCTGTGTCTGAGGAGACCTCAGCAGGGCCCGCTGCCCCAGGCACCTAC
CGCTGCCTCCTGTGCAGCCGTGAATTTGGAAAGGCCTTGCAGCTGACCCGGCACCAACGTTTTGTGCATCGGCTG
GAGCGGCGCCATAAATGCAGCATTTGTGGCAAGATGTTCAAGAAGAAGTCTCACGTGCGTAACCACTGCGCACA
CACACAGGGGAGCGGCCCTTCCCCTGCCCTGACTGCTCCAAGCCCTTCAACTCACCTGCCAACCTGGCCCGCCAC
CGGCTCACACACACAGGAGAGCGGCCCTACCGGTGTGGGACTGTGGCAAGGCTTTCACGCAAGGCTCCCACTG
AGGCAGCACCGCTTGGTGCATGCCAGCACTTCCCCTACCGCTGCCAGGAATGTGGGGTGCGTTTTACCGTCTCT
TACCGCCTGCTCATGCACCGCTACCATCACACAGGTGAATACCCCTACAAGTGTGCGAGTGCCCCCGCTCCTTC
TTGCTGCGTGGCTGCTGGAGGTGCACCAGCTCGTGGTCCATGCCGGGCGCCAGCCCCACCGCTGCCCATCCTGT
GGGGTGCCTTCCCCTCCTCACTGCGGCTCCGGGAGCACCGCTGTGCAGCCGCTGCTGCCAGGCCCCACGGCGC
TTTGAGTGTGGCACCTGTGGCAAGAAAGTGGGCTCAGCTGCTCGACTGCAGGCACACGAGGCGGCCCATGCAGCT
GCTGGGCTGGAGAGGTCTGGCTAAGGAGCCCCCTGCCCTCGAGCCCCACGGGCCACTCGTGCAACAGTTGCC
TCTCCAGCAGCCCTTGGAAGCACTGCTACAGCATCCCCTGCGGCCCTGCCCGCCGCCGGGGTCTAGAGTGCAGC
GAGTGCAAGAAGCTGTTTACGACAGAGACGTCACTGCAGGTGCACCGGCGCATCCACACAGGTGAGCGGCCATAC
CCATGTCCAGACTGTGGCAAAGCGTTCCGTACAGTACCCACCTGAAAGACCACCGGCGCCTGCACACAGGTGAG
CGGCCCTTTGCTGTGAAGTGTGTGGCAAGGCCTTTGCCATCTCCATGCGCCTGGCAGAACATCGCCGCATCCAC
ACAGGCGAACGACCCTACTCCTGCCCTGACTGTGGCAAGAGCTACCGCTCCTTCTCCAACCTCTGGAAGCACCGC
AAGACCCATCAGCAGCAGCATCAGGCAGCTGTGCGGCAGCAGCTGGCAGAGGCGGAGGCTGCCGTTGGCCTGGCC
GTCTAGGAGACTGCTGTGGAGGCGCTACCCCTGGTGGAAAGCCATTGAGATCTACCTCTGGCCGAGGCTGAGGGG
GTCCAGATCAGTGGCTGACTCTGCCGACTTCCTCTTTGGCACCTCCATTCCCTGTGTGAAGGCCCTCCAGCA
TCCCCTTAAGCATCTGTACATACTGTGTCCCTTCCTCTTCCCATCCCCACCCTTGTAAGTTCTAAATTGGATT
TATTCTCTCGTGAGGGGGGTGCTCTGGGGTCCCTTGACACACATAAAGGTGCCCCCACCCTTCCACCTCTTAGCA
CTGGTGACCCAAAAATGAAACCATCAATAAAGACTGGGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 5475

MFKKKSHVRNHLRTHHTGERPFPCPDCSKPFNSPANLARHRLTHHTGERPYRCGDCGKAFTQSSTLRQHRLVHAQHF
PYRCQECGVRFHRPYRLLMHRYHHTGEYPYKCRECPRSFLRLRLLEVHQLVVHAGRQPHRCPSCGAAFPSSRLRLR
EHRCAAAAAQAPRRFECGTCGKKVGSAAARLQAHEAAHAAAGPGEVLAKEPPAPRAPRATRAPVASPAALGSTATA
SPAAPARRRGLECECKKLFSTETSLQVHRRHTGERPYPCPDCGKAFRQSTHLKDHRRRLHTGERPFACEVCGKA
FAISMRLAEHRRHTGERPYSCPDCGKSYSFSNLWKHRKTHQQQHQAQAVRQQLAEAEAAVGLAVMETAVEALPL
VEAIEIYPLAEAEQVQISG

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FIGURE 5476

TCTGAGAGGCGAGGCCGGGTGAGGCGGCGAGGGCGGCCCGACGGGCGCGGGACGGGACGGGGCAGCGAGGGCGCC
GGGAGCCGCGGCCCGGAATCGGGGCGCTTCGCCCCGGGCCCCCAGCATGAAGACCCCGCGGACACAGGGTTTG
CCTTCCCGGATTGGGCCTACAAGCCAGAGTCGTCCCTGGCTCAAGGCAGATCCAGCTGTGGCACTTTATCCTGG
AGCTGCTGCGGAAGGAGGAGTACCAGGGCGTCATTGCCTGGCAGGGGACTACGGGGAATTCGTATCAAAGACC
CTGATGAGGTGGCCCGCTGTGGGGCGTTTCGCAAGTGCAAGCCCCAGATGAATTACGACAAGCTGAGCCGGGCCC
TGCGCTATTACTATAACAAGCGCATTCTGCACAAGACCAAGGGGAAACGGTTCACCTACAAGTTCAATTTCAACA
AACTGGTGCTGGTCAATTACCCATTTCATTGATGTGGGGTTGGCTGGGGGTGCAGTGCCCCAGAGTGCCCCGCCAG
TGCCGTGCGGTGGTAGCCACTTCCGCTTCCCTCCCTCAACGCCCTCCGAGGTGCTGTCCCCACCGAGGACCCCC
GCTCACCACCAGCCTGCTCTTCATCTTTCATCTTCCCTCTTCTCGGCTGTGGTGGCCCGCCCTGGGCCGAGGCT
CAGTCAGTGACTGTAGTGATGGCACGTGAGAGCTGGAGGAACCGCTGGGAGAGGATCCCCGCGCCCGACCAACCG
GCCCTCCGGATCTGGGTGCCTTCCGAGGGCCCCCGCTGGCCCGCCTGCCCATGACCCTGGTGTCTTCCGAGTCT
ATCCCCGGCCTCGGGGTGGCCCTGAACCCCTCAGCCCTTCCCTGTGTGCGCTCTGGCCGGTCTGGATCCCTGC
TGCCCCCTCAGCTCTCCCCGGCTCTGCCCATGACGCCACCCACCTGGCTTACACTCCCTCGCCCCACGCTGAGCC
CGATGTACCCAGTGGTGGCGGGGGGGCCAGCGGCTCAGGGGGAGGCTCCCACTTCTCCTTCAGCCCTGAGGACA
TGAAACGGTACCTGCAGGCCCACACCCAAAGCGTCTACAACCTACCACCTCAGCCCCCGCGCCTTCTGCACTACC
CTGGGCTGGTGGTGGCCAGCCCCAGCGCCCTGACAAGTGCCCGCTGCCGCCATGGCACCCGAGACCCCAACGG
TCCCTCTCTCGGCCTCGTCATCTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT
GACGCCGCGCAGCGGGCAGCTGGGGAGAAGGCCGTAGCCGCTGCTGACAAGAGCGGTGGCAGTGACGGCGGGCTGG
CTGAGGGGGCAGGGGCGCTAGCCCCACCGCCCCCGCCACCACAGATCAAGGTGGAGCCCCATCTCGGAAGGCGAGT
CGGAGGAGGTAGAGGTGACTGACATCAGTGATGAGGATGAGGAAGACGGGGAGGTGTTCAAGACGCCCCGTGCCC
CACCTGCACCCCTAAGCCTGAGCCCGGCGAGGCACCCGGGGCATCCAGTGTCATGCCCTCAAGCTACGCTTTA
AGCGGCGCTGGAGTGAAGACTGTGCGCTCGAAGGGGGTGGGGGCCCCGCTGGGGGCTTTGAGGATGAGGGTGAGG
ACAAGAAGGTGCGTGGGGAGGGGCTGGGGAGGCTGGGGGGCCCCCTACCCCAAGGCGGGTGAGCTCTGACCTCC
AGCATGCCACGGCCAGCTCTCCCTGGAGCACCGAGACTCCTGAGGGGCTGTGGGCAGGGGACCTGTGTGCCCCGC
ACCCCCATGCTTCTTTTGTGCTTAAAGCCCCCTATGCCCTGGAGGTGAGGGCAGCTCTCTTGTCTCTTCCCTG
CCTCCTCCCTTTTCCCTCCCCACATTTTGTATAAACTTTAATTTCTTTTTTTTTTAAAAATGGTGGGGGTGGGTGG
GTGCCAGGGCTAGGGGCTATTCCCTGTCTCTGTGGGTTTCTAAGCTCTGGGCAAATTGGTGGTAGGGGGAGGGA
GGGGGAAGTTAAGGGGGTACCTCCATTCTGGGAATTTATATTTGAATTGAGGCTTTGGCCTTAACACCCAGGA
ACTTTTCTATTACAATCGCTTAGGAAGTAAAGCCTTGTCTCCCTCCCTGTTCTCTGCCTCTTGTACCCCTCTGAC
CCACCCGCTCTGCCCCACTCCCAGCCCTCCTCAGCCCCAGCCCTGCCTGCCCTGCCCTCCAGGGGGCCATGAGT
GCCTAGGTTTCTCATACCCACAAAGGTCACAGCAGGGGAGGGAGGGACAATTTTATAATGAACCAAAATTCAT
GTGTTGGGGGGTGGGGGGCGGAGGAGGTTGAGGGGTGCCGCCATGGGCCACAAATCTCTACAAGTGCTGTAT
CCCTCTCCCACTCCCCACCCAGCACCGGTCCAACCCCTTCATCCCCAGCTGCTCCTAGGACTGGCCCATGGGCA
GGCGGGTGGGGGGATGGGAAGGGGGTGCCCTGAAACCAACTGGAAGCCCCCTCTGCCTCCCAGCTGGGGCCTCT
GGGGTGGGGTGGGGGGCTGTGGTCAAGCCTTATTCTGTATTGGGGACTGAGGGTGGGGGGAGTAGAGGGGCCGT
GGAGAATGTATTCAAAACAATAAACTTTGGACCTTTGGAAAA

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FIGURE 5477

MKTPADTGFAFPDWAYKPESSPGSRQIQLWHFILELLRKEEYQGVIAWQGDYGEFVIKDPDEVARLWGVRKCKPQ
MNYDKLSRALRYYYNKRILHKTGKRFTYKFNFNKLVLVNYPFIDVGLAGGAVPQSAPPVPSGGSHFRFPSTPS
EVLSPTEPRSPACSSSSSSSLFSAVVARRLGRGSVSDCSDGTSELEEPLGEDPRARPPGPPDLGAFRGPPPLARL
PHDPGVFRVYPRPRGGPEPLSPFPVSPLAGPGSLLPPQLSPALPMTPTHLAYTPSPTLSPMYPSSGGGPGSGGGG
SHFSFSPEDMKRYLQAHTQSVYNYHLSPRAFLHYPGLVVPQQRPDKCPLPPMAPETPPVPSSASSSSSSSSSPF
KFKLQRPPLGRRQRAAGEKAVAAADKSGGSAGGLAEGAGALAPPPPPQIKVEPISEGESEEEVTDISDEDEED
GEVFKTPRAPPPPKPEPGEAPGASQCMPLKLRFKRRWSEDCRLEGGGGPAGGFEDGEDKKVRGEGPGEAGGPL
TPRRVSSDLQHATAQLSLEHRDS

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FIGURE 5478

AGCCGTGCTCAGAAAGTTTCTGGATCCCAGGCTCATCTCCACAGAGGAGAACACGCAGGCAGCAGAGACCATGGG
GCCCATCTCAGCCCCCTTCCTGCAGATGGCGCATCCCCTGGCAGGGGGCTCCTGCTCACAGCCTCACTTTTCACCTT
CTGGAACCCGCCCACCCTGCTCAGCTCACTATTGAAGCTGTGCCATCCAATGCTGCAGAGGGGAAGGAGGTTCT
TCTACTTGTCCACAATCTGCCCCAGGACCCTCGTGGCTACAACCTGGTACAAAGGGGAAACAGTGGATGCCAACCG
TCGAATTATAGGATATGTAATATCAAATCAACAGATTACCCCAGGGCCTGCATACAGCAATCGAGAGACAATATA
CCCCAATGCATCCCTGCTGATGCGGAACGTACCAGAAATGACACAGGATCCTACACCCTACAAGTCATAAAGCT
AAATCTTATGAGTGAAGAAGTAACCTGGCCAGTTTACGCTACATCCGGAGACTCCCAAGCCCTCCATCTCCAGCAA
CAACTCCAACCCCGTGGAGGACAAGGATGCTGTGGCCTTACCTGTGAACCTGAGACTCAGAACACAACCTACCT
GTGGTGGGTAAATGGTCAGAGTCTCCCGGTGAGTCCCAGGCTGCAGCTGTCCAATGGCAACAGGACCCTCACTCT
ACTCAGTGTACAAAGGAATGACGTAGGACCCTATGAATGTGAAATACAGAACCCAGCGAGTGCAAACCTTCAGTGA
CCCAGTCACCCTGAATGTCTCTATGGCCCAGATGCCCCCACCATTTCCTTCAGACACCTATTACCATGCAGG
GGTAAATCTCAACCTCTCCTGCCATGCGGCCTCTAATCCACCCTCACAGTATTCTTGGTCTGTAATGGCACATT
CCAGCAATACACACAAAAGCTCTTTATCCCCAACATCACTACAAAGAACAGCGGATCCTATGCCCTGCCACACCAC
TAACTCAGCCACTGGCCGCAACAGGACCACAGTCAGGATGATCACAGTCTCTGATGCTTTAGTACAAGGAAGTTC
TCCTGGCCTCTCAGCTAGAGCCACTGTGAGCATCATGATTGGAGTACTGGCCAGGGTGGCTCTGATATAGTAGCT
CTGGTGTAGTTTCTGCATTTCAAGAAGACTGGCAGACAGTTGTTTTTATTCTTCTCAAAGCATTGCAATCAGC
TACCATTCAAATTGCTTCTTCTTCAAGATTTATGGAAAATACTCTGACGAGTACTCTTGAACACAAGTTTCTGA
TAACTTTAAGATCACGCCACTGGACTGTCTATGAACCTTGCAAACAGGCTGATACCTTTGTGAAGTTGCCACCAA
AACACAGAAGGAAAAAACATGAATTTTATTGAACATAATAATGAGGATAATGTTTTTAAGATTTTTTTTTT
TTTTTGAGATGGAATCTCGCTCTGTGCGCCAGGCTGGAGTGCAGTGGCACGATCTCAACTCACTGCAAGCTCCGC
CTCCTGGGTTACACCATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCTGCCACAACGCCCGG
CTAATTTTTTGATTTTTTAGTAGAGACGGGGTTTCACTGTGGTCTCAATCTCCTGACTTCATGGTCCGCCTGCCT
CAGCCTCCCAAAGTTCTGGGATTACAGGTGTGAGCCACCGCGCCAGCCCGTTTTTAAGATTTTTTATTTGAAAA
ATTGCCAATTCTTTAAGTGTTTTCTTTTTTCAAGTTTATGAATTTCTTTATCTTTTAAGCTATCTATACCTTACTG
CAATTTGGTAAAGCAGACTTTTGTGAACAAAAATTATAACATTTACTTTTGCTCCCTACCTGACTGCCACAGAAC
TGGGCAACTATTTCATGAGTATTCATATGTTTATGGTAATTCAGTTATTTGCACAAGTTCAGTGAGAATCTGCTGT
CTTTATAATGGGATATAGTTTAAACATTGGTTATATTACCAAGGCTTTGATTGGGATGTTATATTGAGAAAAAT
ACAGAGAATGATAGATTAACGGAGTGTCTAATCTATCGTGTCAACCCCAAATTTTACGTATGAGATCCTTTAGT
CCACCCAATGGCTGACAGTAACAGCATCTTTAACACAACCTTTGTTCAAATGTACTATGGTCTCTTTTAGAGTC
AGACTCCTAGACTCACTTGTTCTCACTGTCTGTTTAAATTTAACCCAGGCATGCAATGCTAGATAATAAAATTGC
TCCCTATTGGCTGATCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5479

MGPISAPSCRWRIPWQGLLLTASLFTFWNPPTTAQLTIEAVPSNAAEGKEVLLL VHNLPQDPRGYNWYKGETVDA
NRRIIGYVISNQQITPGPAYSNRETIYPNASLLMRNVTRNDTGSYTLQVIKLNLMSEEV TGQFSVHPETPKPSIS
SNNSNPVEDKDAVAFTCEPETQNTTYLWWVNGQSLPVSPRLQLSNGNRTLTL LSVTRNDVGPIECEIQNPASANF
SDPVTLNVLYGPDAPTISP SDTYHAGVNLNLSCHAASNPPSQYSWSVNGTFQQYTQKLFIPNITTKNSGSYACH
TTNSATGRNRRTTVRMITVSDALVQGSSPGLSARATVSIMIGVLARVALI

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FIGURE 5480

ATGATGGCGTATATGAACCCGGGGCCCCACTATTCTGTCAACGCCTTGGCCCTAAGTGGCCCCAGTGTGGATCTG
ATGCACCAGGCTGTGCCCTACCCAAGCGCCCCCAGGAAGCAGCGGGGAGCGCACCACCTTCACCCGGAGCCAA
CTGGAGGAGCTGGAGGCACTGTTTGCCAAGACCCAGTACCCAGACGTCTATGCCCCGTGAGGAGGTGGCTCTGAAG
ATCAATCTGCCTGAGTCCAGGGTTCAGGTTTGGTTCAGAACCAGGAGGGCTAAATGCAGGCAGCAGCGACAGCAG
CAGAAACAGCAGCAGCAGCCCCAGGGGGCCAGGCCAAGGCCCGGCCTGCCAAGAGGAAGGCGGGCACGTCCCCA
AGACCCTCCACAGATGTGTGTCCAGACCCTCTGGGCATCTCAGATTCCCTACAGTCCCCCTCTGCCCCGGCCCCCTCA
GGCTCCCCAACCACGGCAGTGGCCACTGTGTCCATCTGGAGCCCAGCCTCAGAGTCCCCCTTGCCCTGAGGCGCAG
CGGGCTGGGCTGGTGGCCTCAGGGCCGTCTCTGACCTCCGCCCCCTATGCCATGACCTACGCCCCGGCCTCCGCT
TTCTGCTCTTCCCCCTCCGCCTATGGGTCTCCGAGCTCCTATTTAGCGGCCTAGACCCCTACCTTTCTCCCATG
GTGCCCCAGCTAGGGGGCCCGGCTCTTAGCCCCCTCTCTGGCCCCCTCCGTGGGACCTTCCCTGGCCCCAGTCCCCC
ACCTCCCTATCAGGCCAGAGCTATGGCGCCTACAGCCCCGTGGATAGCTTGGAATTCAAGGACCCACGGGCACC
TGGAATTACCTACAATCCCATGGACCCTCTGGACTACAAGGATCAGAGTGCCTGGAAGTTTCAGATCTTGTAG

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FIGURE 5481

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEELEALFAKTQYPDVIYAREEVALK
INLPESRVQVWFKNRRAKCRQQRQQKQQQPPGGQAKARPAKRKAGTSPRPSTDVCPDPLGISDSYSPPLPGPS
GSPTTAVATVSIWSPASESPLPEAQ RAGLVASGPSLT SAPYAMTYAPASAFCS SPSAYGSPSSYFSGLDPYLSPM
VPQLGGPALSP LSGPSVGPSLAQSPTSLSGQSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFAQIL

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FIGURE 5482

TGACAAGATGGCGGCAGGAGGCAGTGGCGTTGGTGGGAAGCGCAGCTCGAAAAGCGATGCCGATTCTGGTTTCCT
GGGGCTGCGGGCCCACTTCGGTGGACCCAGCGCTGAGGCGGCGGGCGGCGAGGCCCAAGAAATAAGAAGCGGGGCTG
GCGGCGGCTTGCTCAGGAGCCGCTGGGGCTGGAGGTTGACCACTTCCTGGAAGACGTGCGGCTACAGGAGCGCAC
GAGCGGTGGCTTGTTGTCAGAGGCCCCAAATGAAAACTCTTCTTCGTGGACACTGGCTCCAAGGAAAAAGGGCT
GACAAAGAAGAGAACCAAAGTCCAGAAGAAGTCACTGCTTCTCAAGAAACCCCTTCGGGTTGACCTCATCTCGA
GAACACATCCAAAGTCCCTGCCCCAAAGACGTCTCGCCCAACAGGTCCCCAACGCCAAGAAGCTCAGGCGGAA
GGAGCAGCTATGGGAGAAGCTGGCCAAGCAGGGCGAGCTGCCCCGGGAGGTGCGCAGGGCCAGGCCCGGCTCCT
CAACCTTCTGCAACAAGGGCCAAGCCCGGGCCCCAGGACACCGTAGAGCGGCCCTTCTACGACCTCTGGGCCTC
AGACAACCCCTGGACAGGCCGTTGGTTGGCCAGGATGAGTTTTCTGAGCAGACCAAGAAGAAAGGAGTGAA
GCGGCCAGCACGCTGCACACCAAGCCGTCCAGGCACCCGCCGTGGAGGTGGCGCCTGCCGGAGCTTCCTACAA
TCCATCCTTTGAAGACCACAGACCCTGCTCTCAGCGGCCACAGAGGTGGAGTTGCAGCGGCAGAAGGAGGCGGA
GAAGCTGGAGCGGCAGCTGGCCCTGCCCGCCACGGAGCAGGCCGCCACCCAGGAGTCCACATTCAGGAGCTGTG
CGAGGGGCTGCTGGAGGAGTCGGATGGTGAGGGGGAGCCAGGCCAGGGCGAGGGGCCGAGGCTGGGGATGCCGA
GGTCTGTCCACGCCCCGCCCGCTGGCCACCACAGAGAAGAAGACGGAGCAGCAGCGGCGGCGGAGAAGGCTGT
GCACAGGCTGCGGGTACAGCAGGCCGCGTTGCGGGCCGCCCGGCTCCGGCACAGGAGCTGTTCCGGCTGCGCGG
GATCAAGGCCCAGGTGGCCCTGAGGCTGGCGGAGCTGGCGCGGCGGCAGAGGCGGCGGCAGGCGCGGAGGC
TGAGGCTGACAAGCCCCGAAGGCTGGGGCGGCTCAAGTACCAGGCACCTGACATCGACGTGCAGCTGAGCTCGGA
GCTGACAGACTCGCTCAGGACCCTGAAGCCGAGGGCAACATCCTTCGAGACCGGTTCAAGAGCTTCAGAGGAG
GAATATGATCGAGCCTCGAGAGAGAGCCAAGTTCAAACGCAAGTACAAGGTGAAGCTGGTGGAGAAGCGGGCGTT
CCGTGAGATCCAGTTGTAGCTGCCATCAGATGCCGGAGACTCGCCCTTCAATAAAAAATCTCTTCTAGCTG

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FIGURE 5483

CGTCTCTCCGTGAACCCCGTGAGCGGTGTGCAGCCACCATGTTACGCTGGCTGAAGCGGGGCGGGGCACGGGGCC
AGCAGCCCCGAGGCCATCCGCACGGTGACCTCGGCCCTCAAGGAGCTGTACCGCACGAAGCTGCTGCCGCTGGAGG
AGCACTACCGCTTTGGGGCCTTCCACTCGCCGGCCCTGGAGGACGCAGACTTCGACGGCAAGCCCCATGGTGCTGG
TGGCCGGCCAGTACAGCACGGGCAAGACCAGCTTCATCCAGTACCTGCTGGAGCAGGAGGTGCCGGGCTCCCGCG
TGGGGCCTGAGCCCACCACCGACTGCTTTGTGGCCGTGATGCACGGGGACACTGAGGGCACCGTGCCCGGCAACG
CCCTCGTCTGGACCCGGACAAGCCCTTCCGCAAACTCAACCCCTTTCGGAAACACCTTCCTCAACAGGTTTCATGT
GTGCCAGCTCCCTAATCAGGTCTGGAGAGCATCAGCATCATCGACACCCCGGGTATCCTGTGCGGGTGCCAAGC
AGAGAGTGAGCCGCGGCTACGACTTCCCGGCCGTGCTGCGCTGGTTTCGCGGAGCGCGTGGACCTCATCATCCTGC
TCTTTGATGCGCACAAAGCTGGAGATCTCGGACGAGTTCTCAGAGGCCATCGGCGCGTTGCGGGGCCATGAGGACA
AGATCCGCGTGGTGCTCAACAAGGCCGACATGGTGGAGACGCAGCAGCTGATGCGCGTCTACGGCGCGCTCATGT
GGGCGCTGGGCAAGGTGGTGGGCACGCCCCGAGGTGCTGCGCGTCTACATCGGCTCCTTCTGGTCCCAGCCCCCTCC
TCGTGCCGACAACCGGCGCCTCTTCGAGCTGGAGGAGCAGGACCTCTTCCGCGACATCCAGGGCCTGCCCGGC
ACGCAGCCTTGCGCAAGCTCAACGACCTGGTGAAGAGGGCCCGGCTGGTGCGAGTTACGCTTACATCATCAGCT
ACCTGAAGAAGGAGATGCCCTCTGTGTTTGGGAAGGAGAAACAAGAAGAGCAGCTGATCCTCAAACCTGCCCGTCA
TCTTTGCGAAGATTACGCTGGAACATCAGCTCTCCCTGGGGACTTTCTGATTGCCAGAAAATGCAGGAGCTGC
TGATGGCGCACGACTTCACCAAGTTTCACTCGCTGAAGCCGAAGCTGCTAGAGGCACTGGACGAGATGCTGACGC
ACGACATCGCCAAGCTCATGCCCTGCTGCGGCAGGAGGAGCTGGAGAGCACCGAGGTGGGCGTGAGGGGGGCG
CTTTTGAGGGCACCCACATGGGCCCGTTTGTGGAGCGGGGACCTGACGAGGCCATGGAGGACGGCGAGGAGGGCT
CGGACGACGAGGCCGAGTGGGTGGTGACCAAGGACAAGTCCAAATACGACGAGATCTTCTACAACCTGGCGCCTG
CCGACGGCAAGCTGAGCGGCTCCAAGGCCAAGACCTGGATGGTGGGGACCAAGCTCCCCAACTCAGTGCTGGGGC
GCATCTGGAAGCTCAGCGATGTGGACCGCGACGGCATGCTGGATGATGAGGAGTTCGCGCTGGCCAGCCACCTCA
TCGAGGCCAAGCTGGAAGGCCACGGGCTGCCCGCAACCTGCCCCGTGCGCTGGTGCCACCCTCCAAGCGACGCC
ACAAGGGCTCCGCCGAGTGAGCCGGCCCCCTCCCATGGCCCTGCTGTGGCTCCCCAGCTCCAGTCGGCTGCACG
CACACCCCTGCTCCGGCTCACACACGCCCTGCCCTCCCTGCCAGCTGTAAGGACCGGGGGTCTCCCTCCT
CACTACCGCCAGACACCCCGGTGGAAGCATTAGAGGGGACCACGGGAGGGACAAGGCTTCTCTGTCCGCCCTTC
ACACCTCCAGCCTCACGTTCACTTAGGCACATCACACACACTGGCACACGCAGGCATCCATCCATCCGTCATT
CATTCAAATATTTATTGAGCACCTACTATGTGCCAGCCCTGTTCTAGGCACTGGGCATTACCATAGAGAACAAA
ATAGACAAATACATCTGCCCTCATGGAAGGTGACGTTCCAGGAGAGGGCACCTACACAGTCACGCAAACACACA
CTAATTCCTGGCAGGGCCCCAGCCCCCTCCCTGGCTGAGCAGCCCTGTGGCTGAAATGACTAGCAGATAAACAG

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FIGURE 5484A

CTCGTAGCTCCACTCTGCAGCCTCAAACCTCCTGGGCTCCAGTGATCCTCTCACCTCAGCCTCCCAAGTAGCTAAG
ACCACAGGCACATGCTGCCACCCCTGACTAATTTTTCTTTTTTAAAAATTTTTTCTCACTGCGTTGCCCAGGCTG
GTCTCAAACCTCTTTGGCTCAAGCCATCCATCCTCCTACCTCAGCCTCCCAAAGTGCTGAGATTACAAGCGTGAAC
CACCATGCCAGGAGGGAATGTTCTTTCTTGAACGTGGCTGCCCTGTACCTCAGCATTCTTTGCGGCAGCTGTGG
CCTAAGCGTAGCCCCCTTGCTAACCTCAGCTCTTTCTTCCACCTTTCCCGGCCTGCAGCTCCATGTGCAAGAAG
CTTCCGGCAACCACCTGAACCCAGAGCCCAACCAGCCGGCCCCAGTGTGGACCTAGACTTCTTGGGAAGATGACA
TCCTGGGCTCTCCTGCGACAGGGGGCGGGCGGGGGGAGTGGGGGCGCTGACCAGCCCTGTGACATCCTCCAGC
AGAGCCTCCAAGAGGCCAACATCACGGAGCAGACGCTGGAGGCCGAGGCTGAGCTGGACCTGGGTCCCTTCCAGC
TGCCACCCCTGCAGCCTGCGGATGGCGGGGCGAGGCCGACGGGCGCTGGAGGGGCGAGCGGCCGTGGCTGCGGGG
CCCAAGCCCTCTTCCAGGCAGCACCGACCTGCTGGGGCTGCAGGGCCCGCTACCGTGCTGACCCACCAAGGCC
TGGTGCCGCCCCAGGACGTGGTCAACAAGGCCCTGAGTGTGCAGCCCTTCTTGCAGCCTGTGGGCTGGGCAATG
TGACACTGCAGCCCATCCCGGGCTCCAAGGCCCTGCCAATGGCAGCCCTGGGGGTGCCACGGCGGCCACACTGG
GCCTGGCGCCCATCCAGGTGGTGGGCCAGCCGTCATGGCGCTCAACACGCCCACCTCCAGCTCCTGGCCAAGC
AGGTGCCGCTCAGCGGCTACCTGGCCTCGGCGGCTGGCCCCCTCGGAGCCCGTGACGCTGGCGTGGCCGGTGTCT
CGCCACAGGGGGCTGGCCTGGTCAACAGAAACCTCTCGGCCGCTGTGGCCACCACGCTCAATGGGAACCTGT
TGTTCGGAGGCGCGGGGGCGCCCTCGGCTCCACCGGGACGCCCTCGGGACAGCCGCTGGCGGTGGCCCCAGGCC
TCGGCTCGTCGCCACTGGTCCCGGCGGCCAACGTGATCCTGCATCGCACACCCACGCCCATCCAGCCCAAGCCG
CGGGGTGCTGCCGCCCAAGCTCTACCAGCTGACGCCCAAGCCGTTTGCGCCGCGGGGCGCCACGCTCACCATCC
AGGGCGAGCCGGGGGCGCTCCCGCAGCAGCCCAAGGCCCGCAGAACCTGACGTTTCAAGCGGCGGGGAAGGCGG
GCCAGAAGTGGTGTGTGGGCTTCCCCGCGCTGCGCTGCAAGCGAACGTCTTCAAGCAGCCACCGGCCACCA
CCACCGGAGCGGGCCCGCCGACGCCCCCGGGGCCCTGAGCAAACCCATGAGCGTCCACCTCCTGAACCAAGGCA
GCAGCATGTCATCCCCGCCAGCACATGCTGCCGGGCCAGAACAGTTCTACTGCCTGGCGCCCCGGCGGTCC
AGTCTCCGCGCAGAGCTCTCAGCCCTGCCGGCCAACGTGGGCGGGCAGATCCTGGCGGCGCTGCCCCCACACAG
GTGGACAGTCTATCGCGAACCCATCCTCACAACAGAACCTGGCGGGCCCACTGAGCCTGGGCCCCGTGTGG
CCCCCACTCCGGGGCCACAGCGCGCACATCCTCTCGCCGCTCCCATCCAGGTGGGCCAGCCTGCGCTCTTCC
AGATGCCCGTGTGCTGGCGGGGCGGCGAGCTGCCACGCGAGCCAGCCAGCGCCGCGGGGCCGCGGCCACCA
CTGTCTCCAGGGGGTACCCTGCCCGCCAGCCGCTGGCCATGCTCAACACCCCCGACGGCCTGGTGCAGCCGG
CCACCCCTGCCGCTGCCACCGGGGAGGCGCGCTGTCTACGGTGCAGCCTGCCCCCAGGCGCCCCCGCGG
TCAGCACACCCCTGCCCTGGGCTCCAGCAGCCGCGAGGCGAGCCAGCCCCGAGGCCCCACCCACAGGCCG
CCGCCCCGCTCAGGCCACCACCCCGAGCCAGCCCTGGCCTGGCCTGAGCCCCGAGAGAGATGCTCTGGGC
AGCCGCCCTCTGCCACCCCGACGGCCATCCTCACTCAGGACTCCCTGCAGATGTTCTGCCCCAGGAGAGGAGCC
AGCAGCCCTCTCCGAGAGGGCCCCACCTCTCCGTGCTGCTCGGTCATAGTCAGCGCCCCGCTCCCGCCC
AAGACCCAGCCCCAGCCACCCCGTGCCTAAAGGAGCTGGCCTCGGCCCTCAGGCCCCGACAGCCAGGCTTCCC
CGGCTCCGGCCCCCAGATCCCGGCAGCGGCTCCGCTGAAGGGCCAGGCCCCCTCTTCTGCTCCCGTCACTACCTC
ACCAGGCCCCCTTGGGGGACAGCCCCACCTGCCCTCCCCACACCCACCCGGCCCCCTTCCCGCCACCCCTCCC
GGCCACAGAGTGTGTCCGCCCCCTCCTCAGAGCCACCCTTGACCCCTTGCCCCCAGCCCCCCCAACTC
TGCTTGGCATCTTTGTCTATCCAAAACAGCTAGGCGTTCCCCCGCTGCCAGCAACCCGGCCCCCTACTGCCCCAG
GCCCCGCGCAGCGCCTCTCCGCCCCAGTCCAGCGCCTGAGGGACCGCTGCCCCAGCCCCCACCTCCCTC
CATCTCCACCTCCTCTGCTGTGGCTCCTCCTCTGAGACGTCCTCCAGGTTGCCAGCCCCCTACGCCATCCGACT
TCCAGCTCCAGTTCCACCCAGCCAGGGGCCCCACAAGTCCCCCACTCCCCCTCCAACCTCCACCTGGTCCCTG
AGCCGGCAGACCCCCCCCCACCGCCTCCTCGGACCTTCCAGATGGTGACCAACCCCTTCCAGCGCTGCCCCAGC
CGAAGGCTCTTCTCGAGAGATTTACCAGGTGCCGTCCGGAATCATCTCCAGAACAAGGCTGGGGGGGCCCCGTG
CCGCCCCGAGACCTCCACCAGCCTGGGGCCCCCTACCAGCCCCGCTGCGTCTGTGCTGGTCAGTGGGAGGCC
CATCTGGGACCCCCACTGCCCCAGCCACGCCCCCGCCCCGACCCATGGCCGCCACAGGCTCCCTCCTCTGC
TTCCAGCCGAGAACAAGGCTTTTGCCAGCAACCTCCGACCCTGAATGTGGCCAAGGCGCTTCTCCGGGCCAG
GGAAGCCCTCCGGGCTGCAGTATGAGAGCAAACCTGAGTGGCCTGAAGAAGCCCCCACGCTTACGCCAGCAAGG
AAGCCTGTTTCTTGGAGCATTTGCACAAACACCAGGGCTCCGCTCTGCACCCCGACTACAAGACGGCCTTCCCT
CCTTTGAGGACGCCCTGCATCGCCTCCTGCCCTACCATGTCTACCAGGGCGCCCTCCCTCCCCCAGTGACTACC

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FIGURE 5484B

ACAAAGTGGACGAGGAGTTTGAGACGGTCTCCACGCAGCTGCTGAAACGCACCCAGGCCATGCTCAATAAATATC
GGTCCTGCTCCTGGAGGAGTCCCGGAGGGTGAGCCCCCTCAGCGGAGATGGTAATGATCGACCGAATGTTTCATTC
AGGAGGAGAAGACCACCCCTTGCCCTTGAGATAAACAGCTGGCCAAGGAGAAGCCGGACGAGTACGTGTCTTCCTCCC
GCTCGCTCGGCCTCCCCATCGCAGCCTCTTCCGAGGGTTCATCGGCTTCCCGGCCACGGCCCCCTGTCTGTCTTCAG
CTCCCGGGGCTCCACCCAGCCCCCTCCACACCTGCCACCAAGCTTGTGATCCGGCACGGCGGGGACGGCGGGCT
CCCCCTTCGGTCACCTGGGCGCGGGCTCCTCCTCCTGTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
TGGACGCCGACGAGGACGGCCCCATGCCCTCCCGCAACCGCCCCGCCATCAAGACCTACGAGGCCCGGAGCCGCA
TCGGGCTCAAGCTCAAGATCAAGCAGGAAGCCGGGCTCAGCAAGGTTCGTGCACAACACGGCCCTGGACCCCGTGC
ACCAGCCCCCGCCACCCCCCGCTACCCCTCAAGGTGGCCGAGCCCCCGCCACGGCCGCCACCCACCCGCCGCCCA
CGGGCCAGATGAACGGCACGGTGGACCACCCGCCGCTGCCGCCCCCGAGCGCAAGCCCCCTGGGCACCGCCCCGC
ACTGCCCGCGCCTGCCACTGCGCAAGACCTACCGCGAGAACGTGGGGGGCCCTGGCGCGCCGGAGGGGACGCCCG
CAGGCAGGGCACGGGGAGGCAGCCCGCGCCGCTGCCCGCCAAAGTGGACGAGGCCACCAGCGGGCTCATCCGCG
AGCTGGCGGCCGTGGAGGACGAGCTGTACCAGCGTATGCTGAAGGGCCCCCGCCAGAGCCCGCAGCCAGCGCCG
CCCAAGGCACCGGGGACCCCGACTGGGAGGCGCCCGGGCTGCCCCCTGCCAAGCGGCGCAAGTCCGAGTCGCCCG
ACGTGGACCAGGCCAGCTTCTCCAGCGACAGCCCGCAGGATGACACGCTCACCAGACCTGCAGAGCGCCATCG
ACAGCATCCTGAACCTGCAGCAGGCCCCCGGCCGACGCCCCGCGCCCTCGTACCCCCACGCTGCCTCGGCCGGCA
CCCCCGCATCCCCGCGCCCTGACAGGCCCGAGGCCTACCCACCTCCAGTCACAACGGTGGCCTCGGCCGCA
GGACGTTGACCAGATAACACCGGGCGCCTCCCCCTCCCCGTCCCCTCCTCCCGAAGACGCCGGGACAGTCGGGT
GTCCGCCCTCAGCCTCCTGGGGACTCGAGCCGGGGATCCCCTGACGGTTTTTCTTGCCTAAGTTATTTGAGTCAC
AAAGGCCTCCTTCCCTGCCGCTGCTTCAGCTGGGTGCTGGGGGGTGGGCGTGGATTTAGGGAGGGGGCTGTGA
TGTAACAGTCTCCCTGCCAAGGAGGGGCAAGTGCTGTGTGATTCCTGTTTCTTCCCATTTCTTGGCACAC
TCTGCCCTCTGTCCGGGGGACACGCGCATGTGTTTGCCAGGGATGGGGCCACCGGGTTGATGCCAACGCTCCGG
GTGCCGTGCTTGTCTGTGTGGCTTCTCAGATGGTGGAGGGTGTGGGAGCTGGCAGGGTCTTCCAGACAGTCTC
AGCCTCTCCCCGCCGCCCCCAACAGGCTGTCAAACAAAACCGGAGAGGGGGTGGGGGAGCCAGCCTCCCAGCGTG
CTGTGCCCGCAGGCACCCGTGTGACATCCGCACGTCCAGCTCCGTGACCTGTGTGTGTGTGTGTGTGCACAAGTG
AGTGAGAGATTTGAACGCCACCCCTCGACTTTGAAATCTGAGCAAAACAAGAACTGGGGTCTTCTCTCCCC
CGAACCTCTCCCCAGCTAGTCTTCCCTCTGTTCTTCTGCTCCAGCCGCCCGCGCCAGATTTTGAATCTCGGA
GACAAACTAGTACTGTAAGATAAATTTTTTTGACTGTATTTATGTGTATAACGATTTTTTTAAAGGAGAAT

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FIGURE 5485

GCGGCTGAGTCTTCCCAGGGTCAGGGTCAGGCGCTTTGCTGAGTCCCTTTGTGGCCGCCATGGACAATTCCGGGA
AGGAAGCGGAGGCGATGGCGCTGTTGGCCGAGGCGGAGCGCAAAGTGAAGAACTCGCAGTCCTTCTTCTCTGGCC
TCTTTGGAGGCTCATCCAAAATAGAGGAAGCATGCGAAATCTACGCCAGAGCAGCAAACATGTTCAAAAATGGCCA
AAAAGTGGAGTGCTGCTGGAAACGCGTTCTGCCAGGCTGCACAGCTGCACCTGCAGCTCCAGAGCAAGCACGACG
CAGCCACCTGCTTTGTGGACGCTGGCAACGCATTCAAGAAAGCCGACCCCCAAGAGGGCCATTAACTGTTTGATGC
GAGCAATCGAGATCTACACAGACATGGGCCGATTACGATTGCGGCCAAGCACCACATCTCCATTGCTGAGATCT
ATGAGACAGAGTTGGTGGACATCGAGAAGGCCATTGCCCCACTACGAGCAGTCTGCAGACTACTACAAAGGCGAGG
AGTCCAACAGCTCAGCCAACAAGTGTCTGCTGAAGGTGGCTGGTTACGCTGCGCTGCTGGAGCAGTATCAGAAGG
CCATTGACATCTACGAACAGGTGGGGACCAATGCCATGGACAGCCCCCTCCTCAAGTACAGCGCCAAAAGACTACT
TCTTCAAGGCGGCCCTCTGCCACTTCTGCATCGACATGCTCAACGCCAAGCTGGCTGTCCAAAAGTATGAGGAGC
TGTTCCCAGCTTTCTCTGATTCCCGGGAATGCAAGTTGATGAAAAAATTGCTAGAGGGCCCACGAGGAGCAGAAATG
TGGACAGCTACACCGAGTCGGTGAAGGAATACGACTCCATCTCCCGGCTGGACCAGTGGCTCACCACCATGCTGC
TGCGCATCAAGAAGACCATCCAGGGCGATGAGGAGGACCTGCGCTAAGCCCCACCCAGCCCCCAGTGCCCCGTCT
TCCTGTCCCATCTGCTCAGAGAGAGCCAAGCTCTAAAGCACATGTAGCCGCTGAGACCTGCTGTTTCTGCTGGGG
GCAGGCTCCTCTTCCCCCAGCCCCGGGAGCCTCCCCCAGCTTCTGCGAGCCCCGACCTCTCAGGTTAGACCCTGG
GCCCTGGAGCTTAGGGGATTCTCCCCACCCAGCCCCACACCTGCTCCTTCCCTAATGCTTTGAGGTTTTCTTGG
TTGGAAGCTGCAGCTGGCCCAAGAAAGAAAATAAAAAACAACACTTTTGC

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FIGURE 5486

TTGGCTTGAGCGGGACCGGAGCTGAGGCAGGAAGAGCCGGCGCCATGGTGGAGAAGGAGGAGGCTGGCGGCGGCA
TTAGCGAGGAGGAGGCGGCACAGTATGACCGGCAGATCCGCCTGTGGGGACTGGAGGCCAGAAACGGCTGCGGG
CCTCTCGGGTGCTTCTTGTCGGCTTGAAAGGACTTGGGGCTGAAATTGCCAAGAATCTCATCTTGGCAGGAGTGA
AAGGACTGACCATGCTGGATCACGAACAGGTAACCTCCAGAAGATCCCGGAGCTCAGTTCTTGATTCTGTAAGGTGG
CTGTTGGCCGAAATAGGGCTGAAGCCTCTTTGGAGCGAGCTCAGAATCTCAACCCCATGGTGGATGTGAAGGTGG
ACACTGAGGATATAGAGAAGAAACCAGAGTCATTTTTCACTCAATTTCGATGCTGTGTGTCTGACTTGCTGCTCCA
GGGATGTGATAGTTAAAGTTGACCAGATCTGTGCAAAAAATAGCATCAAGTTCTTTACAGGAGATGTTTTTGGCT
ACCATGGATACACATTTGCCAATCTAGGAGAGCATGAGTTTGTAGAGGAGAAAACTAAAGTTGCCAAAGTTAGCC
AAGGAGTAGAAGATGGGCCCCGACACCAAGAGAGCAAACTTGATTCTTCTGAGACAACGATGGTCAAAAAGAAGG
TGGTCTTCTGCCCTGTAAAGAGCCCTGGAGGTGGACTGGAGCAGTGAGAAAGCAAAGGCTGCTCTGAAGCGCA
CGACCTCCGACTACTTTCTCCTTCAAGTGCTCTTAAAGTTCCGTACAGATAAAGGAAGAGATCCCAGTTCTGATA
CATATGAGGAAGATTCTGAGTTGTTGCTCCAGATACGAAATGATGTGCTTGACTCACTGGGTATTAGTCCTGACC
TGCTTCTGAGGACTTTGTCAGGTACTGCTTCTCCGAGATGGCCCCAGTGTGTGCGGTGGTTGGAGGGATTTTGG
CACAGGAAATTGTGAAGGCCCTGTCTCAGCGGGACCTCCTCACAACAACCTTCTTCTTCTTCGATGGCATGAAGG
GGAATGGGATTGTGGAGTGCTTGGCCCCAAGTGAACCTCAAGATTTGGCAGCCCCAGAGATGCCAACTGCAGCAT
GCCACCTGTATTCCCTGTCCCTTCTTTCATGAAGGCATCTCCAGGCAAGGAAAACTGAAGTCATTGGCCCGAT
ACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGCTGCTCGACAAGGGG
CGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTCAAGGCTGCCTGTCATCCCGGGCCTGCCAGCTCCCTGAGTGAT
GAGCACTTCCAAGCACCCCTCTGCCCTTCTCTGTCTTATGCTGTCCCGGCCTCGCCAGCCCTCTGGGGCATTG
TGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTACCTTCTTGACTTATTCCCCA
CCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCCCAGGCCCCATGAGGCACCAAGTGAAGCA
CAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGAAAACCATGACAGGCAAATGCATTTCTCTGGAGTTTGAGA
CCCTGACAAACAACAGGTGGCATCTGGTGTGCTGTTCTTGAGTTTTCGTTTAGGATTAGTTGAGTTCCAGCTGGG
TTTTGGGAGAAAGGAGATGCTACCAAGTCTTGATGTTAGGGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTG
TCTTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGGAGGAGCCTGCCCTTTTAACAGAACCCCAAGTCACAT
GCGGCTCAAGTCACTCAGAGGCTGTTCATTTCAAGGCTATGTTGGTCCCTTTGTTTACCTCCTAAACCACAGCTG
TTTGTGTTTACATATGTTGTGAATTTCTTGGTCTTTTTTAAAGGAATGATAATAAAGTTACTTGCTTTAGGA
TTTGCTTGTTTTCTTCCACTTCAGAAGCTTCTGAGAGGGAATGGGATGATCCTACCAGTTGCCTTTTCAGACCT
GAGGCTCTA

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FIGURE 5487

GTCATTGGCCCGATACAAAACATTTCTGCAACGAAGGAGGTGGTGCCGACGTGCTGCTTCCCATCACCAGCAGC
TGCTCGACAAGGGGCGCAGGGTGGCTGTCTTTGTTCCAGCACTGTTTCAGGCTGCCTGTATCCCGGGCCTGCCAG
CTCCCCTGAGTGATGAGCACTTCCAAGCACCCCTCTGCCCTTTCTCTGTCCTTATGCTGTCCCGGCCTCGCCAGC
CCTCTGGGGCATTGTGGGAGATGCCTGCCAGGAATGAGCAAGCTCTGTTGCTCGGGAGCCTCTTGTCACCTTCTT
GGACTTATTCCCCACCTGATACCTTATAGAGAAAAGTGTGAATTCAGGTGGAGAGTAGGCCAGGCCCCATGAGG
CACCAGTGGAAGCACAGCTCCAAGTTCAGACAGGTGCCCTTAGAGAGGCAGGTGGCATCTGGTGTGCTGTTCTTG
AGTTTTTCGTTTAGGATTAGTTGAGTTCAGCTGGGTTTTGGGAGAAAGGAGATGCTACCAAGTCTTGGATGTTAG
GGCGAGACCCTGCAAGTTGAGTATTAGAGAGCTTGTCTTCAAGGCAGGTTCTTGGGGCTTCAGGGCTAGGAGGG
AGGAGCCTGCCCTTTTAACAGAACCCAGTCACATGCGGCTCAAGTCACTCAGAGGCTGTTGC

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FIGURE 5488

TGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTGCCCATGATCC
GCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGAGA
AACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGTTCC
GGAACTTTAAAGATCATTTACCGCCGCTATGCTGGCCTCTACTTCTGCATCTGTGTGGATGTCAATGACAACAACC
TGGCTTACCTGGAGGCCATTACAACTTCGTGGAGGTCTTAAACGAATATTTCCACAATGTCTGTGAACTGGACC
TGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGACGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCC
AGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTCCCTGGAGTGAGGGCAGGCGAGCCCCACCCCGCCCCGG
CCCCCTCCTGGACTCGCCTGCTCGCTTCCCCCTTCCCAGGCCCCGTGGCCAACCCAGCAGTCCCTCCCTCAGCTGCCT
AGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAGGGAGGAGACTGCACCCCACTGCCTCTGGGCCCTGGCTGTG
GGCAGAGGCCACCGTGTGTGTCCCAGTAACCGTGCCGTTGTCTGTGATGCCATAAGCGTCTGTGCGTGGAGTC
CCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 5489

GGCAGCCCCGGGAGGCTTTCTCTGGCTGGTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGG
GCCCCGATCCCACCCTCCCGGACCTAAGAGCCTGGGTCCCTGTTTCCGGAGGTCCGCTTCCCGGCCCCCAGATT
CTGGCATCCCAGCCCTCAGTGTCCAAGACCCAGGCAGCCCGGGTCCCCGCCTCCCGGATCCAGGCCTCCGGGATC
TGCGCCACCAGAACCTAGCCTCCTGCAGACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCA
CGTCCCACCCAGAGAACTCTCGTATTCCCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTT
CGGACATCTGGCACACGGGGCAGAGCAGAGAAGCCTCAGCGCCACGCTGGGGAAATTTAAACACTCCAGCTTCCA
AGAGCCAAGGAACCTCAGTGTGTGAACCTACAACCTCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTT
ACTCAACTCAGTCTTAGGAACGTCCGGTCTTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGA
AACCCCGGTGCTTCCCATC**ATCGT**GGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGGGGAGCCCCACCGC
CAACGGGGGCTGGCGCTGGCCTCCATCGAGGACCAAGGCGCGGCAGCAGCGGCTACTGCGGTTCCCGGGACCA
GGTGCGCCGCTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGG
ACTGGGGGTGTGGGGGCGGGGGTGGCGTGGCGTTGGGCCGGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCGA
GCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGGCGCCGACGCT
GGACCCCGGCGCGCTCGGCCGCTTGGCGCCTGGGCGCTGCTCTTTTCTGGTCAACACGCTGCTGGCGTGGG
GCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGGCGCCGCTCCGCCGCCATCAACGCTCCGTGGGAGCCGC
GGGCAGTGCCGAAAATGCCCCAGCAAGGAGGTGCTCGATTCTGTTCTTGGATCTTGCGAGAAATATCTTCCCTTC
CAACCTGGTGTGACGAGCCTTTCGCTCATACTTACCACCTATGAAGAGAGGAATATCACCGGAACAGGGTGAA
GGTGGCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCTTGGTAGTGTGGCCATCGTCTTGGTGTGGC
GCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTTCT
GGTCTCCTGGATCATGTGGTACGCCCTGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGA
TGTGGGTTTACTCTTTGCCCGCCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT
GGTACTGCCCTCATCTACTTCTCTTACC CGCAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACGCCGCT
GGCCACTGCCTTTGGGACCTCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGGAGAATAATGG
CGTGGCCAAGCACATCAGCGTTTCATCCTGCCATCGGCGCCACCGTCAACATGGACGGTGCCGCGCTCTTCCA
GTGCGTGGCCGCAAGTGTTCATTGCACAGCTCAGCCAGCAGTCCCTGGACTTCGTAAAGATCATCACCATCCTGGT
CACGGCCACAGCGTCCAGCGTGGGGGCAGCGGGCATCCCTGCTGGAGGTGTCCTCACTCTGGCCATCATCCTCGA
AGCAGTCAACCTCCCGGTCGACCATATCTCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGT
CCTCAATGTAGAAGGTGACGCTCTGGGGGCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCAC
AGAGCCTGAGTTGATACAAGTGAAGAGTGAAGTGGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCC
CCTCCTCAAACACTATCGGGGGCCCGCAGGGGATGCCACGGTCGCCTCTGAGAAGGAATCAGTCATG**TAA**ACCC
GGGAGGGACCTTCCCTGCCCTGCTGGGGGTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCT
AGGGCTCTGGGGGTCTGCCTGCACACTCTGGGGAGCCAGGGGGCCCCAGCACCCCTCCAGGACAGGAGATCTGGGAT
GCCTGGCTGCTGGAGTACATGTGTTACAAAGGGTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTC
AAGGCTAGAAAACAGCAAGATGGAGAAATAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTC
TCAGGGAGCAGGTACAGGTACCATGGGGAATTCTAGCCCCCACTGGGGGGATGTTACAACACCATGCTGGTTA
TTTTGGCGGCTGTAGTTGTGGGGGGATGTGTGTGTGCACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTTCTGTGACCTCCTGTCCCCATGGTACGTCCACCCCTGTCCCCAGATCCCCATTCCCTCCACAATAACAGAAA
CACTCCCAGGGACTCTGGGGAGAGGCTGAGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATA
AAATTGAGTGTCACTATTT

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FIGURE 5490

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGLGVSGA
GGALALGPERLSAFVFPGELELLRLLRMIILPLVVC SLIGGAASLDPGALGRLGAWALLFFLVTTLLASALGVGLA
LALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEERNITGTRVKVPVQGQ
VEGMNIGLVVFAIVFGVALRKLGPGELELLIRFFNSFNEATMVLVSWIMWYAPVGIMFLVAGKIVEMEDVGLLFA
RLGKYILCCLLGHAHGLLVPLIYFLFTRKNPYRFLWGIVTPLATAFGTSSSSATLPLMMKCVEENNGVAKHIS
RFILPIGATVNMDGAALFQCVAAVFIAQLSQSLDFVKIITILVTATASSVGAAGIPAGGVLTIAIILEAVNLPV
DHISLILAVDWLVDRSCTVLNVEGDALGAGLLQNYVDRTESRSTPELIQVKSELPDPLFPVPTTEGNPLLKHRY
GPAGDATVASEKESVM

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FIGURE 5491

GTAACCGCTACTCCCGGACACCAGACCACCGCCTTCCGTACACAGGGGCCCCGCATCCCACCCTCCCGGACCTAAG
AGCCTGGGTCCCTGTGTTCCGGAGGTCCGCTTCCCGGCCCCCAGATTCTGGCATCCCAGCCCTCAGTGTC AAGA
CCCAGGCAGCCCCGGGTCCCGCCTCCCGGATCCAGGCGTCCGGGATCTGCGCCACCAGAACCTAGCCTCCTGCAG
ACCTCCGCCATCTGGGGGCACTCAACCTCCTGGAGCCAAGGGCCCCACGTCCCACCCAGAGAACTCTCGTATTC
CCAGCTCCTAGGGCCAAGGAACCCGGGCGCTCCGAACCTCCAGCTTTCGGACATCTGGCACACGGGGCAGAGCAG
AGAAGCCTCAGCGCCCAGCCTGGGGAATTTAAACACTCCAGCTTCCAAGAGCCAAGGAACTTCAGTGCTGTGAAC
TCACAACCTAAGGAGCCCTCCAAAGTTCCAGTCTCCAGGTGCTGTTACTCAACTCAGTCTTAGGAACGTCGGGT
CCTGGGAAGGAGCCCAAGCGCTCCAGCCAGCTTCCAGGCGCTAAGAAACCCCGTGCTTCCCATCATGGTGGCC
GATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGCGGAGCCCACCGCCAACGGGGGCGTGGCGCTGGCCTCCATC
GAGGACCAAGGCGCGGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAGGTGCGCCGCTGCCTTCGAGCCAACCTG
CTTGCTGCTGCTGACAGTGGTGGCGTGGTGGCCGGCGTGGCGCTGGGACTGGGGGTGTCGGGGGCCGGGGGTGCG
CTGGCGTTGGGCCCGGAGCGCTTGAGCGCTTCGTCCTCCCGGGCAGCTGCTGCTGCGTCTGCTGCGGATGATC
ATCTTGCCGCTGGTGGTGTGCAGCTTGATCGGCGGCGCCAGCCTGGACCCCGCGCGCTCGGCCGCTGTTGGG
GCCTGGGCGCTGCTCTTTTCTGGTCACCACGCTGCTGGCGTCGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTG
CAGCCGGGCGCGCCTCCGCCGCCATCAACGCCTCCGTGGGAGCGCGGGCAGTGCCGAAAATGCCCCCAGCAAG
GAGGTGCTCGATTGCTTCTGGATCTTGCGAGAAATATCTTCCCTTCCAACCTGGTGTGACGAGCCTTTGCTCA
TACTCTACCACCTATGAAGAGAGGAATATCACCAGCAACAGGGTGAAGGTGCCCGTGGGGCAGGAGGTGGAGGGG
ATGAACATCCTGGGCTTGGTAGTGTGTCATCGTCTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAG
CTGCTTATCCGCTTCTTCAACTCCTTCAATGAGGCCACCATGGTCTGGTCTCCTGGATCATGTGGTACGCCCC
GTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTACTCTTTGCCCGCCTTGGC
AAGTACATTCTGTGCTGCCGTGCTGGGTACGCCATCCATGGGCTCCTGGTACTGCCCTCATCTACTTCTCTTC
ACCGCCAAAAACCCCTACCGCTTCTGTGGGCATCGTGACCGCGCTGGCCACTGCCTTTGGGACCTCTTCCAGT
TCCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGGAGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATC
CTGCCCATCGGCGCCACCGTCAACATGGACGGTGGCGGCTCTTCCAGTGCGTGGCCGAGTGTTCAATTGCACAG
CTCAGCCAGCAGTCTTGGACTTCGTAAAGATCATCACCATCCTGGTCACGGCCACAGCGTCCAGCGTGGGGGCA
GCGGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCGAAGCAGTCAACCTCCCGGTGACCATATC
TCCTTGATCCTGGCTGTGGACTGGCTAGTCGACCGGTCTGTACCGTCTCAATGTAGAAGGTGACGCTCTGGGG
GCAGGACTCCTCCAAAATTACGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGT
GAGCTGCCCCCTGGATCCGCTGCCAGTCCCCACTGAGGAAGGAAACCCCTCTCAAACACTATCGGGGGCCCCGCA
GGGGATGCCACGGTCGCTCTGAGAAGGAATCAGTCATGTAAACCCCGGAGGGACCTTCCCTGCCCTGCTGGGG
GTGCTCTTTGGACACTGGATTATGAGGAATGGATAAATGGATGAGCTAGGGCTCTGGGGGTCTGCCTGCACACTC
TGGGGAGCCAGGGGCCCCAGCACCTCCAGGACAGGAGATCTGGGATGCCTGGCTGCTGGAGTACATGTGTTAC
AAGGGTTACTCCTCAAAACCCCCAGTTCTCACTCATGTCCCCAACTCAAGGCTAGAAAACAGCAAGATGGAGAAA
TAATGTTCTGCTGCGTCCCCACCGTGACCTGCCTGGCCTCCCTGTCTCAGGGAGCAGGTACAGGTACCATGG
GGAATTCTAGCCCCACTGGGGGATGTTACAACACCATGCTGGTTATTTTGGCGGCTGTAGTTGTGGGGGGATG
TGTGTGTGCAGT
GTCCCCCCTGTCCCCAGATCCCCTATTCCCTCCACAATAACAGAAACACTCCCAGGGACTCTGGGGAGAGGCTG
AGGACAAATACCTGCTGTCACTCCAGAGGACATTTTTTTTAGCAATAAAATTGAGTGTC AACTATTT

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FIGURE 5492

ATGATGGAGGAGCGAGCGGCCGCCGCGGTGCGCCGCCGCCGCTCCTCCTGCCGTCCGCTCGGCTCAGGCGCGGGC
CCTGGCCCCACTGGGGCGGCCCGGTCTCCGCCCTGCCCGGGGCCGGGCCGGCAGGTAAGGGAGGCGGGCGGC
GGAGGAGAGCCCCGGGCCACGGCGGGCCCGAGCCCCCTGAGCCTGCCGGGGATCCTGCACCTTTATCCAGCACGAG
TGGGCGCGCTTCGAAGCCGAGAAAGCCCGCTGGGAGGCCGAGCGCGCCGAGTTACAGGCTCAGGTGGCCCTTCCTT
CAGGGAGAGAGGAAAGGGCAGGAGAATCTAAAGACGGACCTGGTGCGGCGGATCAAGATGCTAGAGTATGCGCTG
AAGCAGGAAAGGGCCAAATATCATAACTGAAGTTTGGGACAGACCTGAACCAGGGGGAGAAGAAAGCAGATGTG
TCAGAACAAGTCTCCAATGGCCCCGTGGAATCGGTACCCCTGGAGAACAGCCCGTTGGTGTGGAAGGAGGGGCGG
CAGCTTCTCCGACAGTACCTGGAAGAGGTGGGCTACACAGACACCATCCTCGACATGCGGTCCAAGCGCGTCCGT
TCCCTGCTGGGCCGCTCGCTGGAGCTCAACGGGGCAGTGGAGCCGAGTGAAGGGGCCCCAGGGCTCCACCAGGC
CCTGCAGGGCTCAGTGGTGGGGAGTGCCTGCTGGTGAACAGATCGAGGAGCAGATAAAGAGGAACCGGGCAGGC
AAAGATGGCAAAGAGCGCTTGGGCGGCTCAGTGTGGGGCAGATCCCCCTTCCTGCAGAACTGCGAGGACGAAGAC
AGCGACGAGGACGATGAGCTGGACAGCGTGCAGCACAAGAAGCAGCGTGTGAAGCTCCCATCCAAGGCTCTGGTG
CCCGAAATGGAAGACGAGGATGAGGAAGACGACTCTGAGGATGCTATCAATGAGTTTGATTTCCTGGGCTCAGGA
GAGGATGGGGAAGGGGCTCCAGACCCTCGGCGGTGCACTGTGGATGGGAGCCCCCATGAGCTGGAAAGCCGTCGG
GTCAAATCCAAGGCGTTCTGGCTGACCTGCGGGATGTGGATGGGCTGCCCCAAAAGTGACTGGCCCGCTCCT
GGCACACCCAGCCCCGGCCACATGAAGACGTCTTCATCATGGACACTATCGGGGGCGGGGAGGTGAGCCTGGGG
GACTTGGCAGATCTCACCGTCACCAACGACAACGACCTCAGCTGCGATCTGTCTGACAGCAAAGATGCTTTTAAG
AAGACGTGGAACCCCAAGTTCACCTGCGCTCGCACTACGACGGCATTTCGTTCCCTGGCCTTCCACCACAGCCAG
TCGGCTCTGCTCACCGCTCCGAGGACGGCACGCTCAAGCTCTGGAACCTGCAGAAGGCGGTACAGGCCAAGAAG
AATGCGGCGCTAGATGTGGAACCTATACATGCTTTCGGGCTCACAGGGGCCAGTGTGGCTGTGGCTATGGGC
AGCAACAGTGAATACTGCTACAGTGGCGGGGAGATGCTGTCATCCATAGTTGGAAGATTCCAGACCTCAGCATG
GACCTCTATGATGGCTACGACCCAAGCGTGTGAGCCACGTCTTGAGGGCCACGGGGACGCCGTGTGGGGCCTG
GCCTTCAGTCCCACCTCCCAGCGCTGGCCTCCTGTTCTGCTGATGGCACCGTCCGCATCTGGGACCCAGCAGC
AGCAGCCCGGCGCTCCTCTGCACCTTCCCCACAGCCAGCAGCAGCGGGTCCCCACCTCAGTGGCCTTACCAGC
ACCGAGCCTGCCACATCGTGGCCTCCTTCCGCTCTGGCGACACCGTCTTGATGACATGGAGGTTGGCAGTGCC
CTCCTACGCTGGAGTCCCGGGGACGAGCGGTCCAACCCAGATCAACCAAGTGGTGAGTCATCAAACCAGCCT
CTCACCATCACCGCCACGACAGAGGGGATCCGCTTCCCTGGACAAATCGGACAGGTAAGCCGGTGCATCCATG
GTTGCACACCTGGACGCACTACCTGCCTAGCCGTGGACCCCAACGGCGCATTCCTGATGTCAGGAAGCCATGAC
TGCTCCCTGCGTCTCTGGAGCCTGGACAACAAAACGTGCGTGCAGGAGATCACGGCCCAACGCAAGAAGCAGGAG
GAGGCCATCCAGCTGTTGCCTGCCACCCAGCAAGGCCCTCATTGCCAGTGCTGGCGCTGATGCCCTGGCCAAG
GTCTTCGTATGATGCCACCTGGCCCTGCCCTGGCCGCCACGCTGGCTGGGGTGTAGGGCCGGGAGGTGGGGCT
GAGGGGACTCCCAGCCTCGCTGGAGGTGCAGAGGCTGGCCTCTGTCTGTTGCCATGGAGCCTGGTGGTGCTAA
CGGCCCTTTCAGGAATCCCTCCCCAACGGCTGCCTTCCCCAAGCATCCAGCCTGGGGATGGGCCCCCTTTCAG
GAATACCCCCGAGGATGGCCTCGGGGTTTCCCCCTGTGCCCTGACAGCCGCTCCTGGTATCAGAGCTGCTTTC
AGAGGGCAGCACAGCCAGGGCCGGGTGTCTTTAGGGATCAGTTTTTCCAAGACTCCAGAAGGTGCCAGGTTCTCC
CCTTGAGCTCCTGCTCCCCATCCCCATCCTCCAGACCTGGGCAGGAGCTGTGCTGGGAGAAAGGGTGGCAGC
CGGGAGCCTCAGAGCTGAGCCCCGGCCTGGCTGCCCTCCCCCTCCCGCCCTCTCCACTGCTTTCAGACACTAAC
CAAGGCTTCCAGGCCAGGGATTGCCCAACACTCCTAGGGCAGCCCTCCCAGCGCCCCATGGGGTCGCCATGGGT
AGAGACGGCTTTCTTGTGCCCTCCCTGGGGCATGGAGGGTGGAGTGGGCTCGGGTCCCCCTGAACTCCCTGTA
TATCTGTATAAATAACGGGATTTTCATGGCGCGCCCCACCCGATTATCACTGTGTGATGGTCTCAGTCAGTCT
CCTCCCTGTCTCACTCTTTCCTCTATTTATTTCACTCTCTTGTGTTGGTTCTACCCTGCACCCCTCGGTCCCCCT
CCAGGTTCTGTTTATAAGCCCCAACCCCTCTGTCCCCATCTGTATGTGAAAACCTGTCTCAATAAACCCCTTTG
GAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5493

MMEERAAA AVAAA ASSCRPLGSGAGPGPTGAAPVSAPAPGPGPAGKGGGGGGSPGPTAGPEPLSLPGILHFIQHE
WARFEAEKARWEAERAELQAQVAFLOGERKQENLKTDLVRRIKMLEYALKQERAKYHKLKFGTDLNQGEKKADV
SEQVSNGPVESVTLENSPLVWKEGRQLLRQYLEEVGYTDTILDMRSKRVRSLGRSLELNGAVEPSEGAPRAPPG
PAGLSGGESLLVKQIEEQIKRNAAGKDGERLGGSVLGQIPFLQNCEDSDSDDELDVQHKQORVKLP SKALV
PEMEDEDEDDSEDAINEFDLFGSGEDGE GAPDPRRCTVDGSPHELESRRVKLQGV LADLRDVG LPPKVTGPPP
GTPQPRPHEDVFIMDTIGGGEVSLGDLADLTVTNDNDLSCDLSDSKDAFKKTWNPKFTLRSHYDGIRSLAFHHSQ
SALLTASEDGTLLKLWNLQKAVTAKKNAALDVEPIHAFRAHRGPVLAVAMGSNSEYCYSGGADACIHSWKIPDL SM
DPYDGYDP SVLSHVLEGHGDAVWGLAFSPTSQRLASCSADGTVRIWDPSSSSPACLCTFP TASEHGVPTSVAF TS
TEPAHIVASFRSGDTVLYDMEVGSALLTLESRGSSGPTQINQVVSHPNQPLTITAHDDR GIRFLDNRTGKPVHSM
VAHLDAVTC LAVDPNGAFLMSGSHDCSLRLWSLDNKTCVQEITAHRRKKHEEAIHAVACHPSKALIASAGADALAK
VFV

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FIGURE 5494

AGTCCGAGTGGAGAGCGAGCTGAGTGGTTGTGTGGTCGCGTCTCGGAAACCGGTAGCGCTTGCAGCATGGCTG
ACCAACTGACTGAAGAGCAGATTGCAGAATTCAAAGAAGCTTTTTCACTATTTGACAAAGATGGTGATGGAACATA
TAACAACAAAGGAATTGGGAAGTGAATGAGATCTCTTGGGCAGAATCCACAGAAGCAGAGTTACAGGACATGA
TTAATGAAGTAGATGCTGATGGTAATGGCACAATTGACTTCCCTGAATTTCTGACAATGATGGCAAGAAAAATGA
AAGACACAGACAGTGAAGAAGAAATTAGAGAAGCATTCCGTGTGTTTGATAAGGATGGCAATGGCTATATTAGTG
CTGCAGAACTTCGCCATGTGATGACAAACCTTGGAGAGAAGTTAACAGATGAAGAAGTTGATGAAATGATCAGGG
AAGCAGATATTGATGGTGATGGTCAAGTAACTATGAAGAGTTTGTACAAATGATGACAGCAAAGTGAAGACCTT
GTACAGAATGTGTAAATTTCTTGTACAAAATTGTTTATTTGCCTTTTCTTTGTTTGTAACTTATCTGTAAAAGG
TTTCTCCCTACTGTCAAAAAATATGCATGTATAGTAATTAGGACTTCATTCCCTCCATGTTTTCTTCCCTTATCT
TACTGTCAATTGTCTAAACCTTATTTTAGAAAATTGATCAAGTAACATGTTGCATGTGGCTTACTCTGGATATA
TCTAAGCCCTTCTGCACATCTAACTTAGATGGAGTTGGTCAAATGAGGGAACATCTGGGTATGCCTTTTTTAA
AGTAGTTTTCTTTAGGAAGTGTGAGCATGTTGTTGTTGAAGTGTGGAGTTGTAAGTCTGCGTGGACTATGGACAG
TCAACAATATGTACTTAAAGTTGCACTATTGCAAAACGGGTGTATTATCCAGGTACTCGTACACTATTTTTTTG
TACTGCTGGTCCTGTACCAGAAACATTTCTTTTATTGTTACTTGCTTTTTAACTTTGTTTAGCCACTTAAAT
CTGCTTATGGCACAATTTGCCTCAAAATCCATTCCAAGTTGTATATTTGTTTTCCAATAAAAAAATTACAATTTA
CCC

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FIGURE 5495

MADQLTEEQIAEFKEAFSLFDKDGDTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMAR
KMKDTSSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK

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FIGURE 5496

GAGCCTACCAAACCTTTGGTTTCGCAGGGCTGGAGCTAAGTCTCGCTCCAGGAGAAAGAAGCAGAAGAAGAACTCC
AGGCAGGAAGCAGTGCCTTGAAAAAACCCAAAGGCATCAATTCCAACAGCACAGCTAACTTGGAGGATCCTGAG
GTGGGTGATGCTGAAAGCATGGCGATCTCAGAGCCGATCAAGGGCAGCAGAAAGCCCTGTGTGAATAAGGAGGAG
TTGGCTTTGAAGAAGCCCATGGCGAAATGTGCCTGGAAGGGTCCCAGAGAGCCACCTCAGGATGCCCGGCAGAA
GCCGAGAGCCAGGAGGCGCCTCTGAGTCAGACCAAGATGGTGGCCATGAAAGCCCACCAAAGAAGAAGCCGTG
GCCTGGGTGTCTGCCAAGAACCCCGCTCCCATGAGGAAGAAGAAGAAGGTGAGCTTGGGCCCTGTCTCTACGTC
TTGGTTGACTCAGAAGATGGCAGGAAGAAGCCGGTGATGCCAAAGAAGGGCCAGGCTCAAGAAGGAGGCATCA
GATCAGAAGGCCCTCGGGGCCAGCAGCCTGCCGAGGCAACAGCCTCAACCTCTAGGGGTCCGAAGGCCAAGCCA
GAAGGCTCTCTCGGCGTGCCACCAATGAATCCAGAAAGGTTTGATCTGGGGGACCACCCATACTGAGGAGTTGA
AAGAACAAGGAAGAAGTACCAAGTCAACCAAGTTCTCTTGTCACTGAATAAGACTTTGGACTCTCTTAGGGCC
CCTGTTGATAGAGATCTGGCCCTGAGGTAAACGATAGGTGAGGTCTTGGGTGGGAGGGAGTTGGGGAAGGGAGGT
GGATCTCTATGCCCTTTTCTCTACCAGGCCTGCCGTTTCACCGCCTTCTCTACTCACCTTCTCTTCGGAGGCAGG
AGAGTTGGTAAGAGGATTGGGAAAATTCTAGAACATTTCCTCCCTTTATGCAATGAGCAGGGTCACTGTTACACT
CATCCATGTTTCAGCTTTTCTCCCCACGCCTTGCTCCCTCCTCGGAATGGTCAGCGACCTCTGCAGGCCCTGGCA
TTTGGAAGAGCTGGGTGGCCCTGCCATATCTTCTCCCGCCTTCTCTCGTGTAACCAGCGGGGTAAAGTTAAGC
CAGGACCTTCGCTGCAAACCTGGTTTTATTGCTCCTTCAGTCTCCAGCTTCCATCCTCCAGTTATCTAGCCAGGA
GGTCCCAAGAGTTAGTTTTAGGGAAAAAGATGTCTGCCTAGACCTCAAAGTCTTTGAGTTTTAGAGTCTGTTAG
TAAAAATGGCACTTTGATTCCCATTTGGGATGAGCCCTCTCAGGAATCCTGTGGGGGAAGGGGGGTGATTATAGGG
AAGGACGCAGGCATTCTAGGTCCCAGCTCTAATTCCATCCATCTACCCAACTGTCAACCATCTTTGCACCAAAC
TGTCAACCATCTTTGCAGCAGAAGGTCACCTACTACATTATAGTAAGAGGGGAAAAAAATCTTTTAAACTTTGGCT
GTTGGCCGGGCACGGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCAGGTGCATCAGAGGTGAG
GCGTTTTAAGACCAGCTTGACCAACATGGTGAAACCCCATCTCTACAAAAATTAGCTGGGCGTGGTGGCGCGGCC
TGTAATCCCAGCTACTCAGGAGGCTGAGGCAGATGAATTGCTTGAATCCAGGAGGCAGAGGTTGCAATGAGCCGA
GATTGTGCCACGGCACTCCAGCCTGGGCAGCAGAGTGAGACTCTCTCTCAAAAAAACAAACTTGGCTGTTAATG
TCTGCCCTCTGAATTCAGACACACTATATTAGACCAGACCACCATGTGTCTATTGTGTGTGTGTGTGTGTGTTT
GCGTGCGCATGTGTAGAGGAGAGCAGGGTCCCTGAGATAATGGTTTCCAACTGTATCGTAGCCGTCCACAAA
GATGTAATCCAAATCTATTTTCTCACGTGTTTAAAAAACTGAAAAGTGACTACTCAGATATGTTGGAAGTCACA
TCGAAGACTATCAGAATATTACCTTGTGTTTCATAGGTTAACTTGTTTTGTACACGTCTTAGTTATTTAGGCAT
CTCTTTGCTTAAATTTAGATTCTTGTAAATGTGACTGATGAGCGAGGTTAGAAAGTGAAGAAATTCCTGTGCAT
GTTCTATAATCTGACACCCTGAAAGCAAGTTTCCTTTTCGTCATTACATGCTCTTGTTCTGCCGTGACTGTTTCA
GTGTATGGTAGTAAGTAAATGTATTAACATGGTGAACAGTAGTAATATTCTATCATAGAGTATTAGCCCTTGCAA
GTTTTCAGGGCGTCTTTTCCGACTTCAGTTTTTGTGATAAAGAATGTGAACAGTTGTTAGATGTTCTCAGTGATT
CAACTTTAAACAAATTTCTCGTGATGATTTCATTTCAAATCCTGAGTGAGTCTGACTGAAAAATACGAGAGAAA
AGAGAGTGGTTTCCGTTTGCAGCTACACAGCTGTGTGCATCGACGTTCTCCTGGGGTGTGTGCCAAGCGAAACCC
AGGGGTGAATTGGATTCTTGAAGAGACCAAAGCCTGTAAGTGTCCAGCTTCTAATTTCAAACGGGTCCATTAGG
GCTTCGTTGTGTTAAACAAGTTGACACCATGACTAGTAAATGTAAACGTGTATGTATAAAATAAAGTTTAGCAAAT
TAAGTGTCCTGTT

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FIGURE 5497

CGCGACGGTTCGGCCGGGTGCCGCTGGCGGCCGTTGCCAGGGTAGGGGTCGCTTTGCGGCATGGCGGATGGCGGAG
GGCGAGAGGACTGAGTGTGCTGAGCCCCCGGGACGAACCCCGGCTGATGGAGCTCTGAAGCGGGCAGAGGAG
CTCAAGACTCAGGCCAATGACTACTTCAAAGCCAAGGACTACGAGAACGCCATCAAGTTCTACAGCCAGGCCATC
GAGCTGAACCCAGCAATGCCATCTACTATGGCAACCGCAGCCTGGCCTACCTGCGCACTGAGTGCTATGGCTAC
GCGCTGGGAGACGCCACGCGGGCCATTGAGCTGGACAAGAAGTACATCAAGGGTTATTACCGCCGGGCTGCCAGC
AACATGGCACTGGGCAAGTTCGCGGCCGCGCTGCGAGACTACGAGACGGTGGTCAAGGTGAAGCCCCATGACAAG
GATGCCAAAATGAAATACCAGGAGTGCAACAAGATCGTGAAGCAGAAGGCCCTTTGAGCGGGCCATCGCGGGCGAC
GAGCACAAGCGCTCCGTGGTGGACTCGCTGGACATCGAGAGCATGACCATTGAGGATGAGTACAGCGGACCCAAG
CTTGAAGACGGCAAAGTGACAATCAGTTTCATGAAGGAGCTCATGCACTGGTACAAGGACCAGAAGAACTGCAC
CGGAAATGTGCCTACCAGATTCTGGTACAGGTCAAAGAGGTCTCTCCAAGCTGAGCACGCTCGTGGAAACCACA
CTCAAAGAGACAGAGAAGATTACAGTATGTGGGGACACCCATGGCCAGTTCTATGACCTCTCAACATATTCGAG
CTCAACGGTTTACCTCGGAGACCAACCCCTATATATTTAATGGTGACTTTGTGGACCGAGGCTCCTTCTCTGTA
GAAGTGATCCTCACCCTTTTCGGCTTCAAGCTCCTGTACCCAGATCACTTTCACCTCCTTCGAGGCAACCACGAG
ACAGACAACATGAACCAGATCTACGGTTTCGAGGGTGAGGTGAAGGCCAAGTACACAGCCCAGATGTACGAGCTC
TTTAGCGAGGTGTTTCGAGTGGCTCCCGTTGGCCAGTGTCATCAACGGCAAAGTGCTGATCATGCACGGAGGCCTG
TTCAGTGAAGACGGTGTACCCCTGGATGACATCCGGAATAATGAGCGGAATCGACAACCCCCAGATTCAGGGCCC
ATGTGTGACCTGCTCTGGTCAGATCCACAGCCACAGAACGGGCGCTCGATCAGCAAGCGGGGCGTGAGCTGTGAG
TTTGGGCTGACGTACCAAGGCCTTCTTGGAGAGAACAACCTGGACTATATCATCCGAGCCACGAAGTCAAG
GCCGAGGGCTACGAGGTGGCTCACGGAGGCCGCTGTGTACCGTCTTCTCTGCCCCAACTACTGCGACCAGATG
GGGAACAAAGCCTCCTACATCCACCTCCAGGGCTCTGACCTACGGCCTCAGTTCCACCAGTTCACAGCAGTGCCT
CATCCCAACGTCAAGCCCATGGCCTATGCCAACACGCTGCTGCAGCTAGGAATGATGTGAGGTGACGGGCGGGC
GGCCTGCATCCCAGGGCCCTCCAATCCACCGACCCAGGCCCTGGGCTAGGGGCAGAGCAGGCCCCGCCCCAG
GGCAATGTTGGACCCCCCTTTTACTTTGTAAAGTTTGATTTATTCCCTTTAGGTTTGAGAGGGGGTAGGGGCA
GAGTCAGGGGCTGGCCAGAGGGTCTGCTCCCTGGACAGAGAGGAAGGAGGTGGAGCAGCTGGGGCTGGGGGCACA
GCCTGGGCATTCTGTGGGGAGGCCGCTCCTCGGGGTGGGGTGGGGCCGAGTGGCTGCCCTGCCCCCTCATTGCA
TGGCTCCTCCCCACTCAAGCAATAGGGCCCCGCCATAGGAAGACCCCCAGAGAGAGGGTCAGCAGGGGGGCCCC
GCCTGCGCCTCCCTCCTATAGCCCCATGGTGGGGCTAGGCTGGGGCTCACCCCCCTCCCCAGCTATTTTATGTC
TGTAATTAAATATGTTAAAATAAAGTCATTATCGGAAAAAAAAAAAAA

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FIGURE 5498

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNRSLAYLRT
ECYGYALGDATRAIELDKKYIKGYRRAASNALGKFRAALRDYETVVVKVPHDKDAKMKYQECNKIVKQKA
AIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKLHRKCAYQILVQVKEVLSKLST
LVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDRGSFSVEVILTTFGFKLLYPDHFHLL
RGNHETDNMNQIYGFEDEVKAKYTAQMYELFSEVFEWLPLAQCINGKVLIMHGGLFSEDGVTLD DIRKIERNRQP
PDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDVTKAFLEENNLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPN
YCDQMGNKASYIHLQGSDLRPQFHQFTAVPHPNVKPMAYANTLLQLGMM

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FIGURE 5499

CCCCTTCCTGTGGGGTTTCATTGGGGCATCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCTGAGGGAAGCG
GCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCCAGGAAGCCGGACTCTATGGGGCGGGACCTTGGGGG
AGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCC
TGGGCGAGCCGCCCCGCCCCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTT
ATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCGTCCAGATCTACCACA
ACCCACGGCCAATTTCCTTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCA
TCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAACCTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCC
TCAACTTCGGCAGCAAGGAGGATGCGGCCAGTTTGCCGCCGGCATGGCCAGTGCCTTAGAGGCGTTGGAAGGAG
GTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTCGGTCCCCGAACGGCCCCCTCCCCGGAGGAGGTGGAGCAGC
AGAAAAGGCAGCAGCCCGGCCCGTCGGAGCACATAGAGCGCCGGGTCTCCAATGCAGGAGGCCACCTGCTCCCC
CCGCTGGGGGTCCACCCCCACCACCAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTT
CGGGGGTCCCAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCTGCACCCCTCTCCCGGAGCAGCAGGGCC
CTGGTGGTGGGGGAGCTGGGGCCCCAGGCCTGGCCGCAGCTATTGCTGGAGCCAACTCAGGAAAGTCAGCAAGC
AGGAGGAGGCCTCAGGGGGGCCACAGCCCCCAAAGCTGAGAGTGGTCGAAGCGGAGGTGGGGGACTCATGGAAG
AGATGAACGCCATGCTGGCCCGGAGAAGGAAGCCACGCAAGTTGGGGAGAAAACCCCCAAGGATGAATCTGCCA
ATCAGGAGGAGCCAGAGGCCAGAGTCCCGGCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACAGCACAA
CCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCACTTCGAGACCCAACCTGCACGCCAGCTCCAGTGATT
ACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAGAGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAA
TCATTGAAGCCTTCGTCCAGGAGCTGAGGAAGCGGGTTCTCCCTGACCACAGGGACCCAGAAAGACCCGCTTCTC
CTTTCCGCACACCCGGCCTGTACCCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACACAGGAAT
GCATCGTTCCCACTCCCCATCCCACTTGGAAACTCCAAGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCT
GCTGATTGGCTGGGGAGGCCCCCGCCCTTTCTCCCTTTGGTCCTTCCCTCTGCCATCCCCCTTGGGGCCGGTCC
CTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGGGAAGGAAGGAGGGAATTCACATTCCCTTGTCTAG
ATTCACTTTAAAGCTTAATGCCTTCAAAGTTTTGGTTTTTTAAGAAAAAAAATATATATATATTGGGTTTTG
GGGAAAAGGGAAATTTTTTTTCTTTTGGTTTTTGATAAAATGGGATGTGGGAGTTTTTAAATGCTATAGCCCT
GGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAGGGGATGTCTCACC GGCTGGGGGTGAGATATCCCCCAC
CCAGGGACTCCCCTTCCCTCTGGCTCCTTCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCT
CAGTTTTTTGATTTTTTATTTGGGTAGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGAAATAAGATG
AGGGAGAAAGGAGAAGGGGAGGAAACTTCTCCCTCCCACTTCACCTTTAGCTTCTTGAAAATGGGGCCCTGCA
GAATAAATCTGCCAGTTTTTTATAAAAAAAA

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FIGURE 5500

MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQQVVINCAIVRGVKYNQA
TPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVENGFSPEEVEQQKRQQPGPSE
HIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPGLPPSGVPAAAHGAGGGFPAPP LPAAQGPGGGGAGAPG
LAAAIAGAKLRKVSQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVP
AQSESVRRPWEKNSTTLPRMKSSSVTTSETQPCTPSSSDYSDLQVRVKQELLEEVKKELQKVKEEIEAFVQELR
KRGSP

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FIGURE 5501

ACAGTAGTAAGAGTAACACTGTAGCCGCCACCGGCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCCTTTC
TGCTGCAGGAACCTCTCATCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCT
CCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCACACCCGGCCTGTCACCCTGCTTTCCCTGCCTC
TACTTGACTTGGAATTGGCTGAAGACTACACAGGAATGCATCGTTCCCACTCCCCATCCCCTTGAAAACTCCA
AGGGGGTGTGGCTTCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCGCCCTTTTCTCCCTT
TGGTCCTTCCCTCTGCCATCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAATGAACCCACAGGAAGGG
GGAAGGAAGGAGGGAATTTACATTCCCTTGTTCTAGATTCACTTTAACGCTTAATGCCCTTCAAAGTTTTGGTTT
TTTTAAGAAAAAAAATATATATATATTTGGGTTTTGGGGAAAAGGAAATTTTTTTTCTCTTTGGTTTTGAT
AAAATGGGATGTGGGAGTTT

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FIGURE 5502

AAGTGCTGCGAGCCCTGGGCCACGCTGGCCGTGCTGGCAGTGGGCCGCCCTCGATCCCTCTGCAGTCTTTCCCTTG
AGGCTCCAAGACCAGCAGGTGAGGCCTCGCGGCGCTGAAACCGTGAGGCCCGGACCACAGGCTCCAGATGGACCC
TGGGAAGGACAAAGAGGGGGTGCCCCAGCCCTCAGGGCCGCCAGCAAGGAAGAAATTTGTGATACCCCTCGACGA
GGATGAGGTCCCTCCTGGAGTGGCCAAGCCCTTATTCCGATCTACACAGAGCCTTCCCACTGTGGACACCTCGGC
CCAGGCGGGCCCTCAGACCTACGCCGAATATGCCATCTCACAGCCTCTGGAAGGGGCTGGGGCCACGTGCCCCAC
AGGGTCAGAGCCCTGGCAGGAGAGACGCCCAACCAGGCCCTGAAACCCGGGGCAAAATCCAACAGCATCATTGT
GAGCCCTCGGCAGAGGGGGCAATCCCGTACTGAAGTTCGTGCGCAACGTGCCCTGGGAATTTGGCGACGTAATTCC
CGACTATGTGCTGGGCCAGAGCACCTGTGCCCTGTTCTCAGCCTCCGCTACCACAACCTGCACCCAGACTACAT
CCATGGGCGGCTGCAGAGCCTGGGGAAGAACTTCGCCCTGCGGGTCCTGCTTGTCCAGGTGGATGTGAAAGATCC
CCAGCAGGCCCTCAAGGAGCTGGCTAAGATGTGTATCCTGGCCGACTGCACATTGATCCTCGCCTGGAGCCCCGA
GGAAGCTGGGCGGTACCTGGAGACCTACAAGGCCATGAGCAGAAACCAGCGGACCTCCTGATGGAGAAGCTAGA
GCAGGACTTCGTCTCCCGGTGACTGAATGTCTGACCACCGTGAAGTCAGTCAACAAAACGGACAGTCAGACCCCT
CCTGACCACATTTGGATCTCTGGAACAGCTCATCGCCGCATCAAGAGAAGATCTGGCCTTATGCCCAGGCCTGGG
CCCTCAGAAAGCCCGGAGGCTGTTTGATGTCTGCACGAGCCCTTCTTGAAAGTACCCTGATGACCCAGCTGCC
AAGGAAACCCCAAGTGTAAATAATAATCGTCCTCCCAGGCCAGGCTC

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FIGURE 5503

MDPGKDKEGVFPQPSGPPARKKFVIPLDEDEVPPGVAKPLFRSTQSLPTVDTSAQAAPQTYAEYAI SQPLEGAGAT
CPTGSEPLAGETPNQALKPGAKSNSIIIVSPRQRGNPVLKFVRNVPWEFGDVIPDYVLGQSTCALFLSLRYHNLHP
DYIHGRLQSLGKNFALRVLLVQVDVKDPQQALKELAKMCILADCTLI LAWSPEEAGRYLETYKAYEQKPADLLME
KLEQDFVSRVTECLTTVKSVNKTDSTLLTTFGSLEQLIAASREDLALCPGLGPQKARRLFDVLHEPFLKVP

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[illegible]

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FIGURE 5505

MEEFQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAG
KRHRVRLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQIPASPPPQIPPGLRPRFC
AFGGNPPVTGPRALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPMDVRKKKKKKKNQQLKEPE
AAGFVGTEPTVETLEPLGVLFPSSTKKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTGEGME
PEEGVTVESQFQVKVEPLEEAIPLPPTKKRKKKEKGQAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQ
AQAAALAAPKKKTKKEKQQDATVEPETEVVGPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEQ
PEARATPGSTKKRKKQSQESRMPETVPQEEMP GPPLNSES GEEAPTGRDKKKRQQQQQPV

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FIGURE 5506A

CGCCTCCCTCCGCCGCCGCTTGGGCCGGCTCCGCGCCCCCTCCGCGGGCCCCCGCCCGCCCGCCTGCCCGCCGCC
CCATGGCGCCCGGGGTCCCCGCTGCACGGGGCCACTAGGACCCCTCGGCGTCCCTTCCCTCCCGCCCGCCTGCCCG
CTCTCCCGCCGCGCGGACCCGGGCGTTCTCGGCGCCAGCTTTTGTAGCTCGCGTCCCGAGGCCGGCGGGGGGGA
GGGGAAGAGAGGGGACCTGGGACCCCCGCCCCCCCACC CGCGCCCGCCCTGCCCGCCGGGACCCGGAGAAGATG

TCTTCGCGGACGGTGCTGGCCCCGGGCAACGATCGGAACTCGGACACGCATGGCACCTTGGGCAGTGGCCGCTCC
TCGGACAAAGGCCCGTCTGTGTCAGCCGCTCACTGGGTGCCCGTTGCCGGAACCTCCATCGCCTCCTGTCCCGAG
GAGCAGCCCCACGTGGGCAACTACCGCTGCTGAGGACCAATTGGGAAGGGCAACTCTGCCAAAGTCAAGCTGGCT
CGGCACATCCTCACTGGTCGGGAGGTTGCCATCAAGATTATCGACAAAACCCAGCTGAATCCCAGCAGCCTGCAG
AAGCTGTTCCGAGAAGTCCGCATCATGAAGGGCCTAAACCAACCCCAACATCGTGAAGCTCTTTGAGGTGATTGAG
ACTGAGAAGACGCTGTACCTGGTGATGGAGTACGCAAGTGCTGGAGAAGTGTGACTACCTCGTGTCGCATGGC
CGCATGAAGGAGAAGGAAGCTCGAGCCAAGTTCCGACAGATTGTTTGGCTGTGCACTATTGTACCAGAAAAAT
ATTGTACACAGGGACCTGAAGGCTGAGAACCTCTTGCTGGATGCCGAGGCCAACATCAAGATTGCTGACTTTGGC
TTCAGCAACGAGTTCACGCTGGGATCGAAGCTGGACACGTTCTGCGGGAGCCCCCATATGCCGCCCGGAGCTG
TTTACGGGCAAGAAGTACGACGGGCCGGAGGTGGACATCTGGAGCCTGGGAGTCATCCTGTACACCTCGTCAGC
GGCTCCCTGCCCTTCGACGGGCACAACCTCAAGGAGCTGCGGGAGCGAGTACTCAGAGGGAAGTACCGGGTCCCT
TTCTACATGTCAACAGACTGTGAGAGCATCCTGCGGAGATTTTGGTGCTGAACCCAGCTAAACGCTGTACTCTC
GAGCAAATCATGAAAGACAAATGGATCAACATCGGCTATGAGGGTGAGGAGTTGAAGCCATACACAGAGCCCGAG
GAGGACTTCGGGGACACCAAGAGAATTGAGGTGATGGTGGGTATGGGCTACACACGGGAAGAAATCAAAGAGTCC
TTGACCAGCCAGAAGTACAACGAAGTGACCGCCACCTACCTCCTGCTGGGCAGGAAGACTGAGGAGGGTGGGGAC
CGGGGCGCCCCAGGGCTGGCCTGGCACGGGTGCGGGCGCCAGCGACACCACCAACGGAACAAGTTCAGCAA
GGCACCAGCCACAGCAAAGGGCAGCGGAGTTCCTCTTCCACCTACCAACCGCCAGCGCAGGCATAGCGATTTCTGT
GGCCCATCCCTGCACCCCTGCACCCCAAACGCAGCCGACGAGCACGGGGAGGCGGAGCTGAAGGAGGAGCGG
CTGCCAGGCCGGAAGGGCAGCTGCAGCACCGCGGGAGTGGGAGTCGAGGGCTGCCCGCCCTCCAGCCCATGGTC
AGCAGCGCCCAACAACCCCAACAAGGCAGAGATCCAGAGCGCGGGAAGGACAGCACGAGCACCCCAACAACCTC
CCTCTAGCATGATGACCCGAGAAACACCTACGTTTGACAGAAACGCGCGGGGGCTGAGCGCCCGTCACTGTTG
CCAAATGGGAAAGAAAACAGCTCAGGCACCCACGGGTGCCCCCTGCCTCCCTCCAGTCACAGCCTGGCACCC
CCATCAGGGAGCGGAGCCGCTGGCACCGGTTCCACCATCCGACACCTTCCATGGTGGCCAGGTCCGGGAC
CGGCGGGCAGGGGTGGGGGTGGTGGGGGTGTGAGAAATGGGCCCCCTGCCTCTCCACACTGGCCCATGAGGCT
GCACCCCTGCCCGCGGGCGCCCCCCCCCAACCAACCTCTTACCAAGCTGACCTCAAACGACCCGAAGG
GTTACCCCTCGATCCCTCTAAACGGCAGAACTCTAACCGCTGTGTTTCGGGCGCCTCTCTGCCCGAGGATCCAAG
ATCAGGTGCGAGACGAACCTGAGAGAATCGGGGGACCTGAGGTACAAAGTTGCCATCTACCTTGGGATCAAACGG
AAACCGCCCCCGGCTGCTCCGATTCCCTTGAGTGTGAAGCTGACCAGCTCGCGCCCTCCTGAGGCCCTGATGG
CAGCTCTGCGCCAGGCCACAGCAGCCGCGCGCTGCCGCTGCCGCCAGCCACAGCCGTTCTGTGGCCTGCCCTGC
ACGGGGGTGCGGGCGGGCCCCGAGCCCTGTCCCACTTCGAAGTGGAGGTCTGCCAGCTGCCCGGCCAGGCTTGC
GGGGAGTTCTCTTCCGCGGTGTGGCGGGCACCGCCCTGGCCTTCCGCACCCTCGTCACCCGCATCTCCAACGACC
TCGAGCTCTGAGCCACCACGGTCCAGGGCCCTTACTCTTCTCTCCCTTGTGCGCTTCACTTCTACAGGAGGGG
AAGGGGCCAGGGAGGGGATTCTCCCTTTATCATCACTCAGTTTCCCTGAATTATATTGGGGGCAAAGATTGTC
CCCTCTGCTGTTCTCTGGGGCCGCTCAGCACAGAAGAAGGATGAGGGGGCTCAGCGGGGGGAGCTGGCACCTTCC
TGGAGCCTCCAGCCAGTCTGTCTCTCCCTCGCCCTACCAAGAGGGCACCTGAGGAGACTTTGGGGACAGGGCAGG
GGCAGGGAGGGAACTGAGGAAATCTTCCATTCTCCCAACAGCTCAAAATTAGGCCCTTGGGCAGGGGACGGAG
AGCTGCTGAGCCTAAAGACTGGAGAATCTGGGGGACTGGGAGTGGGGGTGAGAGAGGCAGATTCTTCCCTCCC
GTCCCTCAGCTCAAAACCCCACTTCTGCCCCAGGCTGGCGCGGGGCACCTTGTACAAATCTTGTAAATACC
CCACACCTTCCCTCTGAAAGGTCTCTTGAGGAGCTGCCGCTGTACCTACGGTTTTTAAGTTATTACACCCCG
ACCCTCTCTGTGAGCCCCCTACCTGCAGCCTGTTGCCCAATAAATTTAAGAGAGTCCCCCCTCCCCAATGC
TGACCCTAGGATTTTCTTCCCTGCCCTCACCTGCAATGAGTTAAAGAAGAGGCGTGGGAATCCAGGCAGTGGT
TTTTCTTTTCGAGCCTCGGTTTTCTCATCTGCAGAAATGGGAGCGGTGGGGGTGGGAAGGTAAGGATGGTCTGG
AAGAAGGCAGGATGGAACCTCGGCCTCATCCCCGAGGCCCCAGTTCTTATATCGGGCCCCCATTCATCCACTCAC
ACTCCCAGCCACCATGTTACACTGGACTCTAAGCCACTTCTTACTCCAGTAGTAAATTTATTGCAATAACAATC

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FIGURE 5506B

ATTGAXCCC

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FIGURE 5507

MSSRTVLAPGNDRNSDTHGTLGSGRSSDKGPSWSSRSLGARCNSIASCPPEQPHVGNRYRLLRITIGKNSAKVKL
ARHILTGREVAIKIIDKTQLNPSSLQKLFREVRIMKGLNHPNIVKLFEVIETEKTLYLMEYASAGEVFDYLVSH
GRMKEKEARAKFRQIVSAVHYCHQKNIVHRDLKAENLLLDAAENIKIADFGFSNEFTLGSKLDTFCGSPPYAAPE
LFQGGKYDGPEVDIWSLGVILYTLVSGSLPFDGHNKELRERVLRGKYRVPFYMSDCEILRRFLVLNPAKRCT
LEQIMKDKWINIGYEGEELKPYTEPEEDFGDTKRIEVMVGMGYTREEIKESLTSQKYNEVTATYLLLGRKTEEGG
DRGAPGLALARVRAPSDTTNGTSSSKGTSHSKGQRSSSSTYHRQRRHSDFCGPSPAPLHPKRSPSTSTGEAELKEE
RLPGRKASCSTAGSGSRGLPPSSPMVSSAHNPNAEIPERRKDSTSTPNNLPPSMMTRRNTYVCTERPGAERP
SL
LPNGKENSSTGTPRVPPASPSSSLAPPSGERSRLARGSTIRSTFHGGQVRDRRAGGGGGGGVQNGFPASP
TLAHE
AAPLPAGRPRPTTNLFTKLTSKLTRRVTLDPKQNSNRCSGASLPQGSKIRSQTNLRESGDLRSQVAIYLG
IK
RKPPPGCSDSPGV

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FIGURE 5508

ACCCGGAGCGGGAAGATGGCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGCACCCAATGCCTGGCAGGTCATCAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACACGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCCCTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTCACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTCCAGTCATTCTGTTGCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCATCGACCTCTGGAAGATCACCAAGGTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTATCGACGACCTGTTGCGCTTTGTATCAAGATGCCCGTTATGTACCGGATCGGC
TGCCTGCGGGACGATGTGGTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCACAGCAGCAGGGGCC
CTCAGCCCCACACCTGCACCCACCACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCAAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGATTAG

TCGAGACTGGTCTCACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTCAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGTTGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGTGGGTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAAA

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FIGURE 5509

MAAAQEADGARS AVVAAGGGSSGQVTSNGS IGRDPPAETQPQNPPAQPAPNAWQVIKGVLFRIFI IWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKFDAVSGDYYP I IYFNDYWNLQKDYYPINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTI IVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFP LLGCYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFI TMTF
QLFINYKLKSV AHPWRMLTYKALNTFIDDLFAFVIKMPVMYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVP TAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 5510

GATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCCGAGCTGCGCCAGCAGACCGAGTGGCAGA
GCGGCCAGCGCTGGGAACTGGCACTGGGTGCTTTTGGGATTACCTGCGCGCCAAGCTGGAGGAGCAGGCCCAGC
AGATACGCCTGCAGGCCGAGGCCTTCCAGGCCCGCCTCAAGAGCTGGTTCGAGCCCCTGGTGGAAACATGCAGC
GCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTGGGCACCAGCGCCGCCCTGTGCCAGCGACAATC
ACTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACCCCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGG
AGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCCTAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5511

CGCAGCGGAGGTGAAGGACGTCTTCCCCAGGAGCCGACTGGCCAATCACAGGCAGGAAGATGAAGGTTCTGTGG
GCTGCGTTGCTGGTCACATTCTTGGCAGGATGCCAGGCCAAGGTGGAGCAAGCGGTGGAGACAGAGCCGGAGCCC
GAGCTGCGCCAGCAGACCGAGTGGCAGAGCGGCCAGCGCTGGGAACCTGGCACTGGGTTCGCTTTTGGGATTACCTG
CGCTGGGTGCAGACACTGTCTGAGCAGGTGCAGGAGGAGCTGCTCAGCTCCCAGGTACCCAGGAACCTGAGGGCG
CTGATGGACGAGACCATGAAGGAGTTGAAGGCCTACAAATCGGAACCTGGAGGAACAACCTGACCCCGGTGGCGGAG
GAGACGCGGGCACGGCTGTCCAAGGAGCTGCAGGCGGCGCAGGCCCGGCTGGGCGCGGACATGGAGGACGTGTGC
GGCCGCCTGGTGCAGTACCGCGGCGAGGTGCAGGCCATGCTCGGCCAGAGCACCGAGGAGCTGCGGGTGCGCCTC
GCCTCCACCTGCGCAAGCTGCGTAAGCGGCTCCTCCGCGATGCCGATGACCTGCAGAAGCGCCTGGCAGTGTAC
CAGGCCGGGGCCCGCGAGGGCGCCGAGCGCGGCCTCAGCGCCATCCGCGAGCGCCTGGGGCCCCCTGGTGGAACAG
GGCCGCGTGCGGGCGCCACTGTGGGCTCCCTGGCCGGCCAGCCGCTACAGGAGCGGGCCAGGCCCTGGGGCGAG
CGGCTGCGCGCGCGGATGGAGGAGATGGGCAGCCGGACCCGCGACCGCCTGGACGAGGTGAAGGAGCAGGTGGCG
GAGGTGCGCGCCAAGCTGGAGGAGCAGGCCAGCAGATACGCCTGCAGGCCGAGGCCCTTCCAGGCCCGCCTCAAG
AGCTGGTTCGAGCCCCCTGGTGGAAGACATGCAGCGCCAGTGGGCCGGGCTGGTGGAGAAGGTGCAGGCTGCCGTG
GGCACCAGCGCCGCCCTGTGCCCAGCGACAATCAGTGAACGCCGAAGCCTGCAGCCATGCGACCCACGCCACC
CCGTGCCTCCTGCCTCCGCGCAGCCTGCAGCGGGAGACCCTGTCCCCGCCCCAGCCGTCCTCCTGGGGTGGACCC
TAGTTTAATAAAGATTACCAAGTTTCACGC

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FIGURE 5512

MKVLWAALLVTFLAGCQAKVEQAVETEPEPEL RQQT EWQSGQRWELALGRFWDYLRWVQTLSEQVQEELLSSQVT
QELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVCGRLVQYRGEVQAMLGQSTEE
LRVRLASHLRKLRKRLRLRDADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGS LAGQPLQERA
QAWGERLRARMEEMGSRTDRDLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEP LVEDMQRQWAGLVEK
VQAAVGTSAAPVPSDNH

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FIGURE 5513

GGCGGCGGCAGCGGGTTGCGTTGCGCGTGGCGCACGGGGTGGGAGCGGAGCCCAGGCCGGGAGCAGGCGCCGCCG
CCAGCGACCATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCCTGCGCCGGCCCTC
GTGGGGCTGCCGCCACCTCCGCCCTCGCCGCCGGGCTTCACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGGC
ACCACTACGAGTCGAAGTTCGGAACGGACCCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCGCCGAGGATGGG
GCCTGCGGCTGCCTGCCCAACCCGGGCACATTTCAGGAGTGCCACCGGAAGTGCAAGGAGCTGTTTCCCATTCAG
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGCGTTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGGTCAATCACCAGCTGGGCCCCGGTCTC
AGGTCCAAGATGGCCATCCAGACCCAGCAGTCGAAGTTTGTGAAGTGGCAGGTGGACGGGGAGTATCGGGGCTCT
GACTTCACAGCAGCCGTCAACCTGGGGAACCCAGACGTCTCGTGGGTTCAGGAATCCTCGTAGCCCACTACCTC
CAGAGCATCACGCCTTGCCCTGGCCCTGGGTGGAGAGCTGGTCTACCACCGCGCGCCTGGAGAGGAGGGCACTGTC
ATGTCTCTAGCTGGGAAATACACATTGAACAACCTGGTTGGCAACGGTAACGTTGGGCCAGGCGGGCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAAGGATGCAGGACACC
AGCGTCTCCTTCGGGTACCAGCTGGACCTGCCCAAGGCCAACCTCCTCTTCAAAGGCTCTGTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAAGCTCCACCCCTGCCCCTGACACTGGCCCTTGGGGCTTCCTGAATCAC
CGCAAGAACAAGTTTTCAGTGTGGCTTTGGCCTCACCATCGGGTGAGCCCTCCTGGCCCCCGCCTCCACGCCCTT
CCGATTCCACCTCCACCTCCACCTCCCCCTGCCACAGAGGGGAGACCTGAGCCCCCTCCCTTCCCTCCCCCTT
GGGGGTGCGGGGGGGACATTGGAAAGGAGGGACCCCGCCACCCAGCAGCTGAGGAGGGGATTCTGGAAGTGAAT
GGCGCTTCGGGATTCTGAGTAGCAGGGGCAGCATGCCAGTGGGCCTGGGGTCCCGGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAGGGGCAGAGGCGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCTTCCAAAGGGCCTGGGCCCCGCCCGAGGGGGCAGCGAGAGGAGCTTCCCCATCCCCGGTCAGTCCACCCTGCC
CCGTCCACTTTCCCATCTCCTCGGTATAAATCATGTTTATAAGTTATGGAAGAACCGGGACATTTTACAGAAAAA
AAACAAAAAAACAACAAAAAATATACGTGGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5514

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPPLGGSLGAGTSTSRSSERTPGAATASASGAAEDGACG
CLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDSGSLNAQVIHQLGPLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAATLGNPDVLVSGGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMFLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPLPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 5515

GAGCAGAACAGGGAGGCTAGAGCGCAGCGGGAACCGGCCCGGAGCCGGAGCCCGGAGCCCCACAGGCACCTACTAA
ACCGCCCAGCCGATCGGCCCCCACAGAGTGGCCCGCGGGCCTCCGGCCGGGGCCAGTCCCCTCCCGGGCCCTCCA
TGGCCCCGGCCGCTGCCCTCCTGCCGTCGAGATCGCCGCCGACGCCGCTGCTGTGGCCGCTGCTGCTGCTGCTGC
TCCTGGAAACCGGAGCCCAGGATGTGCGAGTTCAAGTGCTACCCGAGGTGCGAGGCCAGCTCGGGGGCACCCTGG
AGCTGCCGTCGCCACCTGCTGCCACCTGTTCTGGACTGTACATCTCCCTGGTGACCTGGCAGCGCCCAGATGCAC
CTGCCAACCACCAGAATGTGGCCGCCTTCCACCCTAAGATGGGTCCCAGCTTCCCAGCCCCAAGCCTGGCAGCG
AGCGGCTGTCTTCGTCTCTGCCAAGCAGAGCACTGGGCAAGACACAGAGGCAGAGCTCCAGGACGCCACGCTGG
CCCTCCACGGGCTCACGGTGGAGGACGAGGGCAACTACACTTGCGAGTTTGCCACCTTCCCCAAGGGTCCGTCC
GAGGGATGACCTGGCTCAGAGTCATAGCCAAGCCCCAAGAACCAAGCTGAGGCCCAGAAGGTCACGTTACGCCAGG
ACCCTACGACAGTGGCCCTCTGCATCTCCAAAGAGGGCCGCCCAECTGCCCGGATCTCTGGCTCTCATCCCTGG
ACTGGGAAGCCAAAGAGACTCAGGTGTGAGGGACCCTGGCCGGAAGTGTCACTGTACCAGCCGCTTCACCTGG
TGCCCTCGGGCCGAGCAGATGGTGTACGGTCACCTGCAAAGTGGAGCATGAGAGCTTCGAGGAACCAGCCCTGA
TACCTGTGACCTCTCTGTACGCTACCTCCTGAAGTGTCCATCTCCGGCTATGATGACAACTGGTACCTCGGCC
GTACTGATGCCACCCTGAGCTGTGACGTCCGCAGCAACCCAGAGCCCACGGGCTATGACTGGAGCACGACCTCAG
GCACCTTCCCGACCTCCGCAGTGGCCCAAGGGCTCCCAGCTGGTCATCCACGCAGTGGACAGTCTGTTCAATACCA
CCTTCGTCTGCACAGTCACCAATGCCGTGGGCATGGGCCCGCGCTGAGCAGGTCATCTTTGTCCGAGAAACCCCCA
GGGCCTCGCCCCGAGATGTGGGCCCGCTGGTGTGGGGGGCCGTGGGGGGGACACTGCTGGTGTGCTGCTTCTGG
CTGGGGGGTCTTGGCCTTCATCCTGCTGAGGGTGAGGAGGAGGAGGAAGAGCCCTGGAGGAGCAGGAGGAGGAG
CCAGTGGCGACGGGGGATTCTACGATCCGAAAGCTCAGGTGTTGGGAAATGGGGACCCCGTCTTCTGGACACCAG
TAGTCCCTGGTCCCATGGAACCAGATGGCAAGGATGAGGAGGAGGAGGAGGAGGAAGAGAAGGCAGAGAAAGGCC
TCATGTTGCCTCCACCCCCAGCACTCGAGGATGACATGGAGTCCCAGCTGGACGGCTCCCTCATCTCACGGCGGG
CAGTTTATGTGTGACTGGACACAGACAGAGACAGAGCCAGGCCCGGCCCTCCCGCCCCGACCTGACCACGCCG
GCCTAGGGTTCCAGACTGGTTGGACTTGTTTCGTCTGGACGACACTGGAGTGGAACTGCTTCCCACTTTCTTGG
GACTTGGAGGGAGGTGGAACAGCACACTGGACTTCTCCCGTCTCTAGGGCTGCATGGGGAGCCCCGGGGAGCTGAG
TAGTGGGGATCCAGAGAGGACCCCGCCCCCAGAGACTTGGTTTGGCTCCAGCCTTCCCCTGGCCCCCGTGACAC
TCAGGAGTTAATAAATGCCTTGGAGGAAAACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5516

MARAAALLPSRSPEPTLLWPLLLLLLLETTGAQDVRVQVLPEVRGQLGGTVELPCHLLPPVPGLYISLVTWQRPDA
PANHQNVAAFHFKMGPSFPSPKPGSERLSFVSAKQSTGQDTEAELQDATLALHGLTVEDEGNYTCEFATFPKGSV
RGMWLRVIAKPKNQAEAKVTFSQDPTTVALCISKEGRPPARISWLSSLDWEAKETQVSGTLAGTVTVISRFTL
VPSGRADGVTVTCKVEHESFEELPALIPVTLVRYPPPEVSISGYDDNWYLGRTDATALSCDVRSNPEPTGYDWSTTS
GTFFTSAVAQGSQLVIAVDSLFTTFVCTVTNAVGMGRAEQVIFVRETTPRASPRDVGPLVWGAVGGTLLVLLLL
AGGSLAFILLRVRRRRKSPGGAGGGASGDGGFYDPKAQVLGNGDPVFWTPVVPVGPMEPDGKDEEEEEEEKAEKG
LMLPPPPALEDDMESQLDGSLISRRAVYV

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FIGURE 5517

AGTCTCCGCCGCCCGCTGAACATGGAGCCCCCGGACGCACCGGCCAGGCGCGCGGGGCCCCGCGGCTGCTGTT
GCTCGCAGTCCTGCTGGCGGCGCACCCAGATGCCAGGCGGAGGTGCGCTTGTCTGTACCCCCGCTGGTGGAGGT
GATGCGAGGAAAGTCTGTCTATTCTGGACTGCACCCCTACGGGAACCCACGACCATTATATGCTGGAATGGTTCCCT
TACCGACCGCTCGGGAGCTCGCCCCCGCTAGCCTCGGCTGAGATGCAGGGCTCTGAGCTCCAGGTCACAATGCA
CGACACCCGGGGCGCGAGTCCCCCATACCACTGGACTCCAGGGGCGCCTGGTGTGGCTGAGGCCAGGTGGG
CGACGAGCGAGACTACGTGTGCGTGGTGAGGGCAGGGGCGGCAGGCACTGCTGAGGCCACTGCGCGGCTCAACGT
GTTTGCAAAGCCAGAGGCCACTGAGGTCTCCCCAACAAAGGGACACTGTCTGTGATGGAGGACTCTGCCCAGGA
GATCGCCACCTGCAACAGCCGGAACGGGAACCCGGCCCCAACATCACGTGGTATCGCAACGGGCAGCGCCTGGA
GGTGCCCGTAGAGATGAACCCAGAGGGCTACATGACCAGCCGCACGGTCCGGGAGGCCTCGGGCCTGCTCTCCCT
CACCAGCACCTCTACCTGCGGCTCCGCAAGGATGACCGAGACGCCAGCTTCCACTGCGCCGCCCACTACAGCCT
GCCCAGGGGCGGCCACGGCCGCTGGACAGCCCCACCTTCCACCTCACCTGCACTATCCACGGAGCACGTGCA
GTTCTGGGTGGGCAGCCCGTCCACCCAGCAGGCTGGGTACGCGAGGGTGACACTGTCCAGCTGCTCTGCCGGGG
GGACGGCAGCCCCAGCCCGGAGTATACGCTTTTCCGCTTCAGGATGAGCAGGAGGAAGTGCTGAATGTGAATCT
CGAGGGGAACCTGACCCTGGAGGGAGTGACCCGGGGCCAGAGCGGGACCTATGGCTGCAGAGTGAGGATTACGA
CGCGGCAGATGACGTGCAGCTCTCCAAGACGCTGGAGCTGCGCGTGGCCTATCTGGACCCCTGGAGCTCAGCGA
GGGGAAGGTGCTTTCTTACCTCTAAACAGCAGTGACGTGCTGAACTGCTCCGTGCACGGCCTGCCACCCCTGC
CCTACGCTGGACCAAGGACTCCACTCCCCCTGGGCGATGGCCCCATGCTGTGCTCAGTTCTATACCTTCGATT
CAATGGCACCTACGTATGTGAGGCCTCCCTGCCCACAGTCCCGGTCTCAGCCGCACCCAGAACTTCACGCTGCT
GGTCCAAGGCTCGCCAGAGCTAAAGACAGCGGAAATAGAGCCCAAGGCAGATGGCAGCTGGAGGGAAGGAGACGA
AGTCACACTCATCTGCTCTGCCCCGCGGCCATCCAGACCCCAAACCTCAGCTGGAGCCAATTGGGGGGCAGCCCCGC
AGAGCCAATCCCCGGACGGCAGGGTTGGGTGAGCAGCTCTCTGACCCTGAAAGTGACCAGCGCCTGAGCCGCGA
TGGCATCTCTGTGAAGCCTCCAACCCACAGGGAACAAGCGCCATGTCTTCCACTTCGGCGCCGTGAGCCCCCA
GACCTCCCAGGCTGGAGTGCCCGTCATGGCCGTGGCCGTGAGCGTGGGCCCTCTGCTCCTCGTCGTTGCTGTCTT
CTACTGCGTGAGACGCAAAGGGGGCCCCCTGCTGCCGCCAGCGCGGGGAGAAGGGGGCTCCGCCGCCAGGGGAGCC
AGGGCTGAGCCACTCGGGGTTCGGAGCAACCAGAGCAGACCGGCCTTCTCATGGGAGGTGCCTCCGGAGGAGCCAG
GGGTGGCAGCGGGGGCTTCGGAGACGAGTGTGAGCCAAGAACCTCCTAGAGGCTGTCCCTGGACCTGGAGCTGC
AGGCATCAGAGAACCAGCCCTGCTCACGCCATGCCGCCCCCGCCTTCCCTCTTCCCTCTTCCCTCTCCCTGCC
AGCCCTCCCTTCCCTTCTGCGCGCAAGGCAGGGACCCACAGTGGCTGCCTGCCTCCGGGAGGGAAGGAGAGGG
AGGGTGGGTGGGTGGGAGGGGGCCTTCCCTCCAGGGAATGTGACTCTCCAGGCCCCAGAATAGCTCCTGGACCCA
AGCCCAAGGCCAGCCTGGGACAAGGCTCCGAGGGTGGCTGGCCGGAGCTATTTTACCTCCCGCCTCCCTGC
TGGTCCCCCACCTGACGTCTTGCTGCAGAGTCTGACACTGGATTCCCCCCCCCTACCCCGCCCCTGGTCCCACT
CCTGCCCGGCCCTACCTCCGCCCCACCCATCATCTGTGGACACTGGAGTCTGGAATAAATGCTGTTTGTACA
TC

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FIGURE 5518

MEPPDAPAQARGAPRLLLLAVLLAAHPDAQAEVRLSVPPLVEVMRGKSVILDCTPTGTHDHYMLEWFLTD RSGAR
PRLASAEMQGSELQVTMHDTRGRSPPYQLDSQGRLVLAEAQVGDERDYVCVVRAGAAGTAEATARLNVFAKPEAT
EVSPNKGTL SVMEDSAQEIATCNSRNGNPAPKITWYRNGQRLEVPEMNPEGYMTSRTVREASGLLSLTSTLYLR
LRKDDRDASFHCAAHYSLPEGRHGRLDSPTFHLTLHYPTHEVQFWVGSPSTPAGWVREGDTVQLLCRGDGSFSPE
YTLFRLQDEQEEVLNVNLEGNLTLEGVTRGQSGTYGCRVEDYDAADDVQLSKTLELRVAYLDPLELSEGKVL SLP
LNSSAVVNC SVHGLPTPALRWTKDSTPLGDGPMLSLSSTTFDSNGTYVCEASLPTVPVLSRTQNFTLLVQGSPEL
KTAEIEPKADGSWREGDEVTLIC SARGHPDPKLSWSQLGGSPAEP IPGRQGWSSSLTLKVTSALS RDGISCEAS
NPHGNKRHV FHFGAVSPQTSQAGVAVMAVAVSVGLLLL VAVFYCVRRKGGPCCRQRREKGAPPPGEPGLSHSGS
EQPEQTGLLMGGASGGARGGSGGF GDEC

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FIGURE 5519

TCCCAGCCGCACCGGTCCTTCCCGGCACACGCGAGGCTCCCATGGCTCTGGCGGTGGCCCCGTGGGGGCGACAGT
GGGAAGAGGCCCCGCGCCCTGGGCCGGGCAGTCAGGATGCTGCAGCGCCTAGAAGAGCAATGCGTCGACCCCCGGC
TGTCCTGTGAGTCCCCCTTCGCTGCGGGACCTGCTGCCCCGCACAGCGCAGCTGCTTCGAGAGGTGGCCCATTC
GGCGGGCGGCCGGCGGAGGCGGCCCGGGGTCCCGGCGGCTCTGGGGACTTTCTACTCATCTACCTGGCCAATC
TGGAGGCCAAGAGCAGGCAGGTGGCCGCGCTGCTGCCTCCCCGGGGCCGAAGGAGTGCCAACGACGAGCTCTTCC
GGCGGGGCTCCAGACTCAGGCGACAGCTGGCCAAGCTGGCCATCATCTTCAGCCACATGCACGCAGAGCTGCACG
CACTCTTCCCCGGGGGAAAGTACTGTGGACACATGTACCAGCTCACCAAGGCCCCCGCCACACCTTCTGGAGGG
AAAGTTGCGGAGCCCCGGTGTGTGCTGCCCTGGGCTGAGTTTGAGTCCCTCCTGGGCACCTGCCACCCTGTGGAAC
CAGGCTGCACAGCCCTGGCCTTGCGCACCACCATTGACCTCACCTGCAGCGGGCACGTGTCCATCTTCGAGTTTCG
ACGTCTTCACCAGGCTCTTTCAGCCATGGCCAACACTCCTCAAGAACTGGCAGCTCCTGGCAGTCACCCACCCAG
GCTACATGGCCTTCTTCACCTATGATGAGGTCCAAGAGCGTCTGCAGGCCTGCAGAGACAAGCCAGGCAGTTACA
TCTTCCGGCCCCAGCTGTACTCGCCTGGGGCAGTGGGCCATCGGCTATGTGAGCTCAGATGGCAGCATCCTGCAGA
CCATCCCTGCCAACAAACCCCTGTCCCAGGTGCTCCTGGAGGGACAGAAGGACGGCTTCTACCTCTACCCAGATG
GAAAGACCCACAACCCAGACCTGACTGAGCTCGGCCAGGCAGAACCCAGCAGCGCATCCACGTGTGAGAGGAGC
AGCTGCAGCTCTACTGGGCCATGGACTCCACATTTGAGCTCTGCAAGATCTGTGCTGAGAGCAACAAGGATGTGA
AGATTGAGCCGTGCGGGCACCTGCTCTGCAGCTGCTGCCTGGCTGCCTGGCAGCACTCGGACAGCCAGACCTGCC
CCTTCTGCCGCTGCGAGATCAAGGGCTGGGAGGCCGTGAGTATCTACCAGTTCTACGGTCAGGCTACTGCTGAGG
ACTCAGGGAACAGCAGTGACCAGGAAGGCAGGGAGTTGGAGCTGGGGCAGGTGCCCTTTTCGGCTCCTCCATTGC
CCCCACGGCCAGATCTGCCCCCAGGAAGCCAGAAATGCCAGCCGAAAGTGAGACTCCTAAAGGGGAACCTCCC
CTCCAGCTGCGCTGGGACCCAGGACCCTGCCCCGGCTTGAAGGCCAGGGCACCCAGATGTGCTGCTCAAGGGAG
CCCCAAGGGCTGGAAGGGGGTTGTGAAACCGAAATAAACTGCCAAGCCTGGTCTGTCAAAAAAAAAAAAAAAAAA

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FIGURE 5520

MALAVAPWGRQWEEARALGRAVRMLQRLEEQCVDPRLSVSPPSLRDLLPRTAQLLREVAHSRRAAGGGPGGPGG
SGDFLLIYLANLEAKSRQVAALLPFRGRRSANDELFRAGSRLRRQLAKLAIIFSHMHAELHALFPGGKYCGHMYQ
LTKAPAHTFWRESCGARCVPWAEFESLLGTCHPVEPGCTALALRTTIDLTCSGHVSIFEFDVFTRLFQPWPTLL
KNWQLLAVTHPGYMAFLTYDEVQERLQACRDKPGSYIFRPSCTRLGQWAIGYVSSDGSILQTIPANKPLSQVLE
GQKDGFIYPDGKTHNPDLELQAEPPQRIHVSEEQLQLYWAMDSTFELCKICAESNKDVKIEPCGHLLCSCCL
AAWQHSDSQTCPFRCRCEIKGWEAVSIYQFYGQATAEDSGNSSDQEGRELELGQVPLSAPPLPPRPDLPPRKPRNA
QPKVRLKGNSPPAALGPQDPAPA

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FIGURE 5521

ACCATTGGAGCTGAGGCGGCTGCTGCTCTCGGGGGAGGTGTTGGCGCTCCGGTCAGGGGAGGGGTCTGGCTGGGA
GGTGGAAGCAGGCCGGGTGGCCTTCCCCCTCAGGATGTCGATGACCCTGCGGCTGCGCGCCACCATGAGCGGCGT
GTCGTTGTGGCAGTTCTTGAGGCTGCTGTCAGCGCCGCTGCGGACCAGCGTGCGCACCAGCGGGAGGAGCCCGCG
GCCGGACGCTGAGTGCAGGGCGGAGCTGCCGGAGTACATTTGCGCGTTACGTTGGCGCCGTGCTGCAGCAGCAG
CTGCACCATGCTAAGGCTGTTGTTTTCCACGGCGTGGATGAGCGGGGAGCGGCCG

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FIGURE 5522

GCCCCGTATGCCCCGCGGGCGCATGTGACGAGGGGCGCGTGGACTGCGCACCCGGGCCAAGGCCACTGGACTCCC
GGGCGCCGCGCTGCCGCTCCGCAAGCGCCGCTGCGCCGCCCTTCCCCGGAGCCCGCCGCTCCCCGCGGGCGCTG
CGGGCCTTGTCGTCCCCCTGGACCCTCTGCGCGGCGGCTGCGACCTGCCGGCGGTCCCCGGGCCCCCCCACGGCC
TGGCCCGCCGGAGGCGCTTTACTACCCCGGAGCCTTACTGCCTTTGTACCCCACTCGGGCCATGGGCTCCCCGTT
TCCTCTGGTGAACCTGCCTACACCCCTATACCCCATGATGTGCCCATGGAACACCCCTTTCTGCTGACATCGC
CATGGCCACCCGTGCAGATGAGGACGGAGACACGCCTCTCCATATTGCTGTGGTGCAGGGTAACCTGCCAGCTGT
GCACCGGCTGGTCAACCTCTTCCAGCAGGGGGGCGGGAGCTCGACATCTACAACAACCTACGGCAGACACCGCT
CCACCTGGCTGTGATCACCACATTACCGTCTGTGGTCCGGCTCCTGGTGACAGCTGGTGCCAGCCCCATGGCGCT
GGACCGCCATGGCCAGACGGCCGCTCACCTGGCGTGCGAGCACCGCAGCCGACCTGCCTGCGAGCCCTGCTGGA
CAGCGCAGCTCCGGGCACGTTGGACCTGGAGGCCCCGAATTATGACGGGCTCACCGCCCTGCACGTGGCAGTGAA
CACCGAGTGCCAAGAAACCGTGCAGCTCTTGCTAGAGCGCGGTGCCGACATCGACGCAGTGGACATTAAGAGCGG
CCGCTCCCCGCTCATCCACGCCGTGGAACAACAGCCTTAGCATGGTGCAGCTGCTGCTGCAGCACGGCGCCAA
CGTGAACGCGCAAATGTACTCCGGCAGCTCCGCCCTGCACTCAGCGTCCGGCCGCGGCTCCTCCCGCTGGTGGC
CACGCTGGTCCGAGCGGCGCTGACAGCAGCCTCAAGAACTGCCACAACGACACGCCGCTCATGGTGGCGCGCAG
CCGAGGGTCATCGACATCCTGAGGGGGAAGGCCACCCGGCCTGCTTCCACCTCCCAGCCAGACCCCTCCCCTGA
CCGGAGCGCCAACACCTCCCCCGAGAGCAGCAGCCGCTCAGCTCCAATGGTCTTCTCTCCGCATCACCATCCTC
CTCACCTCCCAGTCTCCCCCAGGGACCCCTTGATTCCCCATGGCTCCTCCCAATTTCTTCTTCTTCCCC
ATCTCCACCCGCCTTCTTGCCTTTGCTGGGGTCTCCTCCGAGGCCCTGGCCGGCCGGTGCCCCCTCCCAGCTCC
AGGAGGCAGCTGAGGGGGATGGGGGGGAGATCTTGACTCATGAGGAGGGGCCCCCTGCCCTGTGGGGTCAAC
CCTTCTGGAACTGTGAAGATCTCACTCTGCCCCCCCCATCTTCGGGACCAGGATTTGCACAGAAGCACATGCA
CCTACCCATACACCCCTCTTCTGAGCACAGATGTTCCCCATCTCGCTCCCTCCCAGGACTCTGACCCCAGCAT
TCTCAGGCACCACTCCCTGTCCGGAATGCCACCCACATCTTCCATTTCCATGTCCCCTCCCAGAGCTGGTGGACC
CAGGGAACAGCCACTCCCCTCCACTCTCTACCAGATAACTGAGGAGGGGAGAGGTGGGCCGTAACGGGCACGGAT
CACGATGTAAATTATTAAGCATTTTGGTTGGATTTCTTTTGTAATAAACTATTTTTGTACCAT

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FIGURE 5523

CCGAGGGTCAGGCTGCAGAAAGCCAGAAATCCCACCCAGTCCCCAAGTACAGAGGTCGCTGTCAAGATGGAGTTT
CCAACCCAGTAAATCCAAGGGCCAGACCGTGACCTCATAAAGCATGATCTCCTTCTGTCCAGACTGTGGCAAAG
TATCCAAGCGGCATTCAAATTCTGCCCTACTGTGGAATTTCTTTGCCTGTAGAGGAGCATGTAGGGTCCCAGAC
CTTTGTCAATCCACATGTGTATCCTTCCAAGGCTCAAAGAGAGGGGCTGAACTCCAGTTTTGAAACCTCTCCTAA
GAAAGTGAATGGTCCAGCACCGTCACCTCTCCCCGATTATCCCTCTTCTCAGATGGTGACAGTTCTGAGTCTGA
AGATACTCTGAGTTCTCTGAGAGATCCAAAGGCTCCGGGAGCAGACCCCCAACCCCCAAAAGCAGCCCTCAGAA
GACCAGGAAGAGCCCTCAGGTGACCAGGGGTAGCCCTCAGAAGACCAGCTGTAGCCCTCAGAAGACCAGGCAGAG
CCCTCAGACGCTGAAGCGGAGCCGAGTGACCACCTCACTTGAAGCTTTGCCACAGGGACAGTGCTGACAGACAA
GAGTGGGCGACAGTGGAAGCTGAAGTCCTTCCAGACCAGGGACAACAGGGCATTCTCTATGAAGCTGCACCCAC
CTCCACCCCTCACCTGTGACTCAGGACCACAGAAGCAAAAGTTCTCACTCAAAGTGGATGCCAAGGATGGGCGCTT
GTTCAATGAGCAGAACTTCTTCCAGCGGGCCGCAAGCCTCTGCAAGTCAACAAGTGAAGAAGCTGTACTCGAC
CCCCTGCTGGCCATCCCTACCTGCATGGGTTTCGGTGTTCACCAGGACAAATACAGGTTCTTGGTGTACCCAG
CCTGGGGAGGAGCCTTCAGTCGGCCCTGGATGTGAGCCCAAAGCATGTGCTGTGAGAGAGGTCTGTGCTGCAGGT
GGCCTGCCGGCTGCTGGATGCCCTGGAGTTCCTCCATGAGAATGAGTATGTTCAAGGAAATGTGACAGCTGAAAA
TATCTTTGTGGATCCAGAGGACCAGAGTCAGGTGACTTTGGCAGGCTATGGCTTCGCCTTCGCTATTGCCCAAG
TGGCAAACACGTGGCCTACGTGGAAGGCAGCAGGAGCCCTCACGAGGGGGACCTTGAGTTCATTAGCATGGACCT
GCACAAGGGATGCGGGCCCTCCCGCCGAGCGACCTCCAGAGCCTGGGCTACTGCATGCTGAAGTGGCTCTACGG
GTTTCTGCCATGGACAAATTGCCTTCCCAACTGAGGACATCATGAAGCAAAAACAGAAGTTTGTGATAAGCC
GGGGCCCTTCGTGGGACCCTGCGGTCACTGGATCAGGCCCTCAGAGACCCTGCAGAAGTACCTGAAGGTGGTGAT
GGCCCTCACGTATGAGGAGAAGCCGCCCTACGCCATGCTGAGGAACAACCTAGAAGCTTTGCTGCAGGATCTGCG
TGTGTCTCCATATGACCCATTGGCCTCCCGATGGTGCCCTAGGTGGAATCCAGAAGTTTCCATTTGCAGTGTGC
AACAGAAAAAAAATGAAGCAATGTGACTCAAGGCCTGCTGTTTAATCACAGATAAGCTTCTAGAACAAGCCCTG
GAATGTGCATTCTGCCACTGGTTTCAGGATACTCATCAGTCCTGATTAGCCTCCGGAGGGCCCCAGTTTCCCTC
CCGTGAATGTGAAGTTCCCATCTTGGTGGCCTGCCCTTCAGCCAGTGTCTAGCAAAGCTGGATGCGGTTGGGC
CGGCCACAGGGGGGACCCCTCTACCTTGACTCCTCTGTGCTTTGGTAATAAATTGTTTTACCAGAG

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FIGURE 5524

MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPVHVSFQGSKRGLNSSFETSPKKVKSSTVTSPRLS
LFSGDGDSSESEDTLSSSERSKSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSL
ALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTILTCDSGPQKQKFSLKLDKDGRLFNEQNFFQRAAKPL
QVNKWKLYSTPLLAIPTCMGFGVHQDKYRFLVLPISLGRSLQSALDVSPKHVLSERSVLQVACRLDLEFLHEN
EYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQS
LGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGPCHWIRPSETLQKYLKVVMALTYEEKPPYAMLR
NNLEALLQDLRVSPYDPIGLPMVP

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FIGURE 5525

ATTCATTCCCTGTCTCTCGGATCACAGTCTCTTCTCACTACAGTGTGCGCCGCTCTGCCTGCGTAGCCCCGGCCAT
GGCTCTGTAGCCTCGACCCCTTTGTGCCCCCGGCCGTCTCCGCGCTCACCACGCCTGCGCTCTCCGCTCCCACC
TTCTTTCTTCAGCCGAGGCCGCCGCCCTCTCCTTGCTGCAGCCATGGAGTCTTCCACTTTCGCCCTGGTGCCCT
GTCTTCGCCCACCTGAGCATCCTCCAGAGCCTCGTGCCAGCTGCTGGTGACGCTCTCCTGTGCCATCAGTGCC
CAGCACTGTGCTACAGCCATGTCACCTCTGGCGACCCCTGGGGCTGGAGCTGGACAGGGCCCTGCTCCAGCTAG
TGGGCTGGGATGGCTCGTAGACTATGGGAACTCCCCCGGCCCTGCCCCCTGGCTCCCTATGAGGTCTTGG
GGGAGCCCTGGAGGGCGGGCTTCCAGTGGGGGGAGAGCCCTGGCAGGTGATGGCTTCTCTGACTGGATGACTGA
GCGAGTTGATTTACAGCTCTCCTCCCTCTGGAGCCTCCCTACCCCCCGGCACCCTCCCCAACCTTCCCCAAC
CCCACCTGACCTGGAAGCTATGGCCTCCCTCCTCAAGAAGGAGCTGGAACAGATGGAAGACTTCTTCCCTAGATGC
CCCGCCCCCTCCCAACCCTCCCGCCGCCACTACCACCACCACCTACCACCAGCCCCCTCCCTCCCTCTGTC
CCTCCCTCCTTTGACCTCCCCAGCCCCCTGTCTTGATACTCTGGACTTGCTGGCCATCTACTGCCGCAACGA
GGCCGGGCAGGAGGAAGTGGGGATGCCGCCTCTGCCCCCGCCACAGCAGCCCCCTCCTCCTTCTCCACCTCAACC
TTCTCGCCTGGCCCCCTACCCACATCCTGCCACCACCCGAGGGGACCGCAAGCAAAAGAAGAGAGACCAGAACAA
GTCGGCGGCTCTGAGGTACCGCCAGCGGAAGCGGGCAGAGGGTGAGGCCCTGGAGGGCGAGTGCCAGGGGCTGGA
GGCACGGAATCGCGAGCTGAAGGAACGGGCAGAGTCCGTGGAGCGCGAGATCCAGTACGTCAAGGACCTGCTCAT
CGAGGTTTACAAGGCCCGGAGCCAGAGGACCCGTAGCTGCTAGAGGGCAGGGGTGTGGCTTCTGGGGGCTGGTC
TTCAGCTCTGGCGCCTTCATCCCCCTGCCTCTACCTTCATTCCAAACCCCTCTCGGCCGGGTGCAGTGGCTTATG
CTTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGTTTGGAGCCAGGAGGTCAATACCAGCCTGGGCA
ACATAGTAAGACCCTGTCTCTATTAAAAAATCAACCCCTTCTTCCCCACCAAACCACTCCTCTCT
ACTCTTATCCTTTTATCCTCTGTCTCTGCTTATCACCTCTCTTGCGTATTTCTGGATCTCCTTCCCTCCTTTCTC
GTCCAAATCATGAAATGTTTGGCCTTAGTCAATGTCTATGCCCGTCACATAACAGCCGAGGCACCGAGGCCACA
GGGAAGCAGCTGGGAGCTTGGAACCTGGTCTCTTGAATTTCAAACCTGGTTTCTTACAGGTGGTTGTCTGGGGT
GGGTGGAGTGGCGACAGGATAGAGCTGAAGGACTATGCAAATGAGGAAGTAAGTCAGGGCGGGCTTTGAGAAGGG
GACCCATATCCTACAGGCAAAAGCAGGCTAGGTGACCTTGGGACACTACGCTAAGGGAGGGAGGCTAAAGGCGG
CCAGGTTTGCAGTGCGGGAAGATGAGCAGGCCAGTGGGAGGAGGGGCAGGGCAGGGCTGTAGTTGGTGACTGGGT
GTTCATTTTAGCTCTAAGAAAAAATCAGTGTTCGTGAAGGTGTTGGAGAGGGGCTGTGTCTGGGTGAGGGAT
GGCGGGGTACTGATTTTTTTGGGAGGTTATGAGCAAAAATAAAACGAAACATTTCTCTCTG

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FIGURE 5526

MSLLATLGLELDRALLPASGLGWLVDYGKLPAPAPLAPYEVLGGALEGGLPVGGEPLAGDGFSDWMTERVDFTA
LLPLEPPLPPGTLPPSPTPPDLEAMASLLKKELEQMEDFFLDAPPLPPSPPPPLPPPLPPAPSLPLSLPSFDL
PQPPVLDTLDLLAIYCRNEAGQEEVGMPPPLPPPPQPPPPSPPPQPSRLAPYPHPATTRGDRKQKKRDQNKSAALRY
RQRKRAEGEALLEGECQGLEARNRELKERAESVEREIQYVKDLLIEVYKARSQTRSC

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FIGURE 5527

GCGACCGTGATTCCCCGCTCGCGACTCCCCACCCCCAGGGCTCCCTAAAGAGGGCCACGAGCTGCGAAAGGGCG
GGAAAGGCAGTTGGAGAAGAGGTAAGCGGTTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCCTCGG
CTGAAGAAAGAAGGTGGGAGCGGAGAGCGCAGGCGTGAAACCCACCTTGTCCCATCCACATCAGGACATCCCAGC
TGGAGTTCAACCTTCATCCCTTCTGTGGCAGTTAGGAGACTGAATCAAGGTCCAGAGAAGGTGGAGGAATCCTGA
TACTGAGCGGAAGAAAATACACAGATGTGCTTCCCTTCCAGTCTTGACAAATGGCCTTTCTTAAAGTTCCCTCATT
AATTCATATGAAGACAACACATTTGGTGACTAAATTTGGAATCAGAGGCTTTTAAAGCCTCCAGCTGCTCTGAC
CCCAATATCAGGAACCTTGGCATCTCTGATCTAACAAGGGCACCATAACAAGGACAAAGCCACCATCATTACCT
TGATTCCGCACATGCCAACGATGACTTCTGTCTGGGCTAACCATCAAGGCCATGGGTGCTGAGAGAGCCCCC
AGAGGCAGCCATGCACCTGCACCTCCTCGTCTCGTCCCCATCCTCCTCAGCCTGGTGGCCTCCCAGGACTGGA
AGGCTGAACGCAGCCAAGACCCCTTCGAGAAAATGCATGCAGGATCCTGACTATGAGCAGCTGCTCAAGGTGGTGA
CCTGGGGGCTCAATCGGACCCCTGAAGCCCCAGAGGGTGATTGTGGTTGGCGCTGGTGTGGCCGGGCTGGTGGCCG
CCAAGGTGCTCAGCGATGCTGGACACAAGGTCAACATCCTGGAGGCAGATAACAGGATCGGGGGCCGCATCTTCA
CCTACCGGGACCAGAACACGGGCTGGATTGGGGAGCTGGGAGCCATGCGCATGCCAGCTCTCACAGGATCCTCC
ACAAGCTCTGCCAGGGCCTGGGGCTCAACCTGACCAAGTTCAACCCAGTACGACAAGAACACGTGGACGGAGGTGC
ACGAAGTGAAGCTGCGCAACTATGTGGTGGAGAAGGTGCCCGAGAAGCTGGGCTACGCCTTGCCTCCCCAGGAAA
AGGGCCACTCGCCCGAAGACATCTACCAGATGGCTCTCAACCAGGCCCTCAAAGACCTCAAGGCACTGGGCTGCA
GAAAGGCGATGAAGAAGTTTGAAAGGCACACGCTCTTGAATATCTTCTCGGGGAGGGGAACCTGAGCCGGCCGG
CCGTGCAGCTTCTGGGAGACGTGATGTCCGAGGATGGCTTCTTCTATCTCAGCTTCGCCGAGGCCCTCCGCGCAX
CAGCTGCCTCAGCGACAGACTCCAGTACAGCCGCATCGTGGGTGGCTGGGACCTGATGCCGCGCGCGCTGCTGAG
CTCGCTGTCCGGGCTTGTGCTGTTGAACGCGCCCGTGGTGGCGATGACCCAGGGACCGCACGATGTGCACGTGCA
GATCGAGACCTCTCCCCGGCGCGGAATCTGAAGGTGCTGAAGGCCGACGTGGTGTGCTGACGGCGAGCGGACC
GGCGGTGAAGCGCATCACCTTCTCGCCGCCGCTGCCCCGCCACATGCAGGAGGCGCTGCGGAGGTGCACTACGT
GCCGGCCACCAAGGTGTTCTAAGCTTCCGCAGGCCCTTCTGGCGCGAGGAGCACATTGAAGGCGGCCACTCAA
CACCGATCGCCGTCGCGCATGATTTCTACCCGCCGCCGCGCGAGGGCGCGCTGCTGCTGGCCTCGTACACGTG
GTCGGACGCGGCGGCGAGCGTTGCGCGGCTTGAGCCGGGAAGAGGCGTTGCGCTTGGCGCTCGACGACGTGGCGGC
ATTGCACGGGCTTGTGCTGCGCCAGCTCTGGGACGGCACCGGCGTCTCAAGCGTTGGGCGGAGGACCAGCACAG
CCAGGGTGGCTTTGTGGTACAGCCGCCGCGCTCTGGCAAACCGAAAAGGATGACTGGACGGTCCCTTATGGCCG
CATCTACTTTGCGGCGAGCACACCGCCTACCCGCACGGCTGGGTGGAGACGGCGGTCAAGTCGGCGCTGCGCGC
CGCCATCAAGATCAACAGCCGAAGGGGCTGCATCGGACACGGCCAGCCCCGAGGGGCACGCATCTGACATGGA
GGGGCAGGGGCATGTGCATGGGGTGCCAGCAGCCCTCGCATGACCTGGCAAAGGAAGAAGGCAGCCACCTCC
AGTCCAAGGCCAGTTATCTCTCCAAAACACGACCCACACGAGGACCTCGCATTAAAGTATTTTCGGAAA

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FIGURE 5528

GAAGAGGTAAGCGGTACTCACTCCATGGCTGCAGCAAGGAGAGGCGGCGGCCTCGGCTGAAGAAAGAAGAA
ATCTTCCCAAGGCTGCAGACACCGACGGATTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAGCC
ATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTACGTTTGGCACTGCAAAGACGGCAACA
ACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAACCA
GCCACAAGTACCCCTTCCACCGGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCACT
TTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGAGC
AACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCATA
TCGAGCACCGTCACTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGGCT
CCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAGCACGGCCCAACCCTCCGGTTTCAACATTGGCTCA
GCAGGGAATTAGCCAGCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAGCA
GGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTCGTCAATA
GCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCACT
GCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTGCC
ACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCACTGGCGCCAGCC
GGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGGCGGCTGCCAGC
TCCGCCATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCTTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCAGCCTG
CACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCTGTCCCAGCAG
AAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACCATCTACCTGCAGCAC
GCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGCTCAAGCGCATGGCCAGGAT
CTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACACCAGTGACCCACTGCAGCAGATCTGC
AAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAG
GAGGTGACCAAGGTGTGCGAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGACTGAGCGACA
GCAGCCCTGGGGCCCGCAGGTCCCTAGGGAGTTCATGAGGGGAATGCGCCCTGTTGTCTGTAGTTTGGGGTTGTG
GCAAGATACTTGTGTTTGTGTTTCTTTCTTTTACA

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FIGURE 5529

CTGTAGTCCTGGCACTTTGAGAGGACAAAGAGGGAGGATCGCTTGAGCCCAGGAGTTGAAGACCAGGGCAACAGA
AAATCTTCCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCCGCCACCAGAGTCCGGAG
CCATGAGCGGGTTTAATTTTGGAGGCACTGGGGCCCCCTACAGGCGGGTTTACGTTTGGCACTGCAAAGACGGCAA
CAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTTAATTTTGGGGCTCCCTTCCAAC
CAGCCACAAGTACCCCTTCCACCGGCCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAGACGACAGGCTTCA
CTTTTGGAACAGCGACTCTTGCTTCGGGGGGAAGTGGATTTTCTTTGGGGATCGGTGCTTCAAAGCTCAACTTGA
GCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGGCAGCAGCAACCTCACTAATGCCA
TATCGAGCACCGTCACTCCAGCCAGGGCACAGCACCCACCGGCTTTGTGTTTGGCCCCCTCCACCACCTCTGTGG
CTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAAAGCACGGCCCAACCTCCGGTTTCAACATTGGCT
CAGCAGGGAATTACAGCCAGCCACGGCACCTGCCACGTTGCCCTTCACTCCGGCCACGCCAGCAGCCACCACAG
CAGGTGCCACACAGCCAGCTGCTCCACACCCACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTGCGTCAA
TAGCAACTGCTCCAACCTCATCTGCCACCACTGGACTCTCCCTCTGTACCCCTGTGACCACAGCGGGCGCCCCCA
CTGCTGGGACACAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCGCTG
CCACCGCCACCGCCACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAACCCTGGCGCCAG
CCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGG

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FIGURE 5530

CCGGTCAGCTAAGGCCATGTTAATACGGGGCTGTCCCATCTCTCTGCGGGGCGCGACAGCTGGAAGAGCCGAACG
GATAAGAGAAGAGGAGAGCGCGGATGGCGTCGGGGCGCCCCGAGGAGCTATGCTGCCCATGGTCGAGGAGCCCTG
GCGGAGGCAGCGCGCCGTTGCCTCCACGACATCGCACTGGCCCCACAGGGCTGCCACTGCTGCTCGGCCCTCCTGCG
CCCCACCAGCACCACAGCCACCCAGTCCACACCCAGCCCCACCCCGGCCTACCCTGGCCAGAGAGGACAACGAG
GAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGGGGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTT
GTGATGGATGAGGACGCCACCCTCCAGGACCTTCCCCCTTCTGTGAGTCAGACCCCGAGAGTACAGATGATGGC
AGCCTGAGCGAGGAGACCCCGCGCGCCCCCACCTGCTCAGTGCCCCCAGCCTCAGCCCTACCCACACAGCAG
TACGCCAAGTCCCTGCCTGTGTCTGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTCATCAGAT
GAGGAGAATGGGCGCCCTCTTCGCCCCGACCTGGACCGCATCGCGGCGAGCATGCGCGCGCTGGTGCTGCGAGAG
GCCGAGGACACCCAGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGG
AAATATTGAAGTCCAGGGAGGGAGCGCCCCGGGCGCGCTCCGCCCGTCCCACACTACGCCCCCGCCCCACTCCC
GGGGCCTGCTAATCTGAGGCCGATCCGGGACCGGCCTCCTTGCGTCTCCCATTTCCCAAGATTGTCCCGCCTCTGC
CAATCCCCGCGCTCCTTCCAGCCACGACCTGCCGCGCGGAGGAGCGGCATCTGTCCCGTTTCCCGATTGGGTCT
GTCGTCTCTCTCCGCCTAGCGACAGATTCTTCTATTAAAGGGATTGGCTCGCTGAGTTCTAAGCTCTAAATGGGT
CAACTCCTTTTGTTCGCGCTAGCGACAAGGGATTGTGCTCGCACGGCATTGGCTCCATCCCTAGTCGCTGGACA
GCTCTTTTTTTGATTGGCTCAAATCCTGTAAAGGGCTTGACCAGTCTCTACATAGTCACCGTCCGCTTTTCTCTGA
GTTCTCCCTCCCAATTGGCTCCAGCTTCTTGGGGGCGTGGCCAAGCCCTCCTCTTCCCAGAATTGGCCCGGGGCC
TTCAATTTACGTTCTTTTACACTACGGGGACTGGGGTCTGTTTGGCCACGTCCCGACAACCTTGTTCCCTGACCCC
CTCAGGGATGGCCCCAAACTGTCCCTGCCTCTGGCACCCCTTTTATTGGTTCCATCCATCCCCACAACAGCCTG
CCAATCGAAGCCCGTCCCTGCATCCAGGATGGTACCAGTCCCGCCCCCTCGCCCCCACCTCCACAGGTGCCTTA
AAGGGCCCTCGTCCACCCAAGGTGGGGGCGAGGGGCCCTCACTCTCCGGCCCTGGTGTGGGGGAGAGAGTGAGGG
GTTGGGGGATCGGCAGTTGGGAGGGGCGCTCTGAGATTAAAGAGTTTACCTCTGAGAT

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FIGURE 5531

GCCGGGTTGCAGGCGGGGCACCTCGGGCAGGACCTCCCTGGTCGGAAGTGGCCGTGAGCCCAAGCCGCGGTCCGG
GGCCGGCACCCAGGATGGGCGAGGTGGAGGCCCCGGGCGCTTGTGGCTCGAGAGCCCCCTGGGGGAGCGCCCC
CATCTTCCTGCCCTCGGACGGGCAAGCCCTGGTCCTGGGCAGGGGACCCCTGACCCAGGTTACGGACCGGAAGTG
CTCCAGAACTCAAGCCTGAAGCAGGCCACACTCCCCAGAAATGAGGGACCCAATCACACAAGGATGCAAACTCTG
ACTCCACCCCTCCAATCCTCAGTGGAGCTGGTCGCAGATCCTGAGACCCGGACAGTGGCAGTGAACAGCTGGGA
GTTAACCCTCAACTACCGGGACCCAGGAGTTGAAGCCGGGGTTGGAGGGCTCTCTGGGGGTGGGGGACACACTG
TATTTGGTCAATGGCCTCCACCCACTGACCCTGCGCTGGGAAGAGACCCGCACACCAGAATCCCAGCCAGATACT
CCGCTGGCACCCCTCTGGTGTCCCAAGATGAGAAGAGAGATGCTGAGCTGCCGAAGAAGCGTATGCGGAAGTCA
AACCCCGGTGGGAGAACTTGGAGAAGTTGCTAGTGTTACCCGCAGCTGGGGTGAAACCCAGGGCAAGGTGGCT
GGCTTTGATCTGGACGGGACGCTCATCACCACACGCTCTGGGAAGGTCTTCCCACTGGCCCCAGTGACTGGAGG
ATCTTGTACCCAGAGATTCCCCGTAAGCTCCGAGAGCTGGAAGCCGAGGGCTACAAGCTGGTGATCTTACCAAC
CAGATGAGCATCGGGCGCGGAAGCTGCCAGCCGAGGAGTTCAAGGCCAAGGTGGAGGCTGTGGTGGAGAAGCTG
GGGGTCCCTTCCAGGTGCTGGTGGCCACGCACGCAGGCTTGTACCGGAAGCCGGTGACGGGCATGTGGGACCAT
CTGCAGGAGCAGGCCAACGACGGCACGCCCATATCCATCGGGGACAGCATCTTGTGGGAGACGCAGCCGGACGC
CCGGCCAACTGGGCCCCGGGGCGGAAGAAGAAAGACTTCTCCTGCGCCGATCGCCTGTTTGCCCTCAACCTTGGC
CTGCCCTTCGCCACGCTGAGGAGTTCTTTCTCAAGTGGCCAGCAGCCGGCTTCGAGCTCCCAGCCTTTGATCCG
AGGACTGTCTCCCGCTCAGGGCCTCTCTGCCTCCCCGAGTCCAGGGCCCTCCTGAGCGCCAGCCCGAGGTGGTT
GTCGCAGTGGGATTCCCTGGGGCCGGGAAGTCCACCTTTCTCAAGAAGCACCTCGTGTCGGCCGGATATGTCCAC
GTGAACAGGGACACGCTAGGCTCCTGGCAGCGCTGTGTGACCACGTGTGAGACAGCCCTGAAGCAAGGGAAACGG
GTCGCCATCGACAACACAAACCCAGACGCCGCGAGCCGCGCCAGGTACGTCCAGTGTGCCCGAGCCGCGGGCGTC
CCCTGCCGCTGCTTCCTCTTACCGCCACTCTGGAGCAGGCGCGCCACAACAACCGGTTTTGAGAGATGACGGAC
TCCTCTCATATCCCGTGTGACACATGGTCATGTATGGCTACAGGAAGCAGTTCGAGGCCCAACGCTGGCTGAA
GGCTTCTTGCCATCCTGGAGATCCCGTTCCGGCTATGGGTGGAGCCGAGGCTGGGGCGGCTGTACTGCCAGTTC
TCCGAGGGCTGAGCCCCGCCAGCTCCCCTCCACAATAAACGCTGTTTCTCCTTG

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FIGURE 5532

GGCTGCGGCTGCAGTGGTGGTGGCGGGTACCGCACGGGGTATGGTCCCCGGGTCCGAGGGCCCCGGCCGCGCCGG
GAGCGTGGTGGCCGACGTGGTGTGTTGTGATTGAGGGTACGGCCAACCTGGGACCCTACTTCGAGGGGCTCCGCAA
GCACTACCTGCTCCCGGCCATCGAGTATTTTAATGGTGGTCCTCCTGCTGAGACGGACTTCGGGGGAGACTATGG
GGGGACCCAGTACAGCCTCGTGGTGTTC AACACAGTGGACTGCGCTCCCGAGTCTTACGTACAATGTCACGCTCC
CACCAGCAGCGCCTATGAGTTTGTACCTGGCTCGATGGCATTAAAGTTTCATGGGCGGGGGTGGTGAGAGCTGCAG
CCTCATCGCGGAAGGACTCAGCACAGCCTTGAGCTGTTTGATGACTTCAAGAAGATGCGCGAGCAGATTGGCCA
GACGCACCGGGTCTGCCTCCTCATCTGCAACTACCCCCATACTTGTTCCTGCTGTGAGAGCACCAGTACTC
TGGATGCACAACTGAGAACTTGTGTCAGCAGATTGGGGAGCGGGGGATCCACTTCTCCATTGTGTCTCCCCGAA
GCTGCCTGCGCTTCGGCTTCTGTTTGAGAAGGCAGCCCCCGGCCTTGCTGGAGCCGCTGCAGCCTCCGACAGA
TGTGAGCCAGGACCCGAGGCACATGGTGTCTGGTTCGGGGACTCGTGCTGCCTGTGGGGGTGGCTCAGCCCTAGG
CCCCCTCCAGTCAAAGCAGCCAGTCCCCCTGCCTCCCGCGCACCCCTCAGGTGCCACTCTCTCAGCAGCCCCCA
GCAGCCTCTGCCCCCGTCCCCCGCAGTACCAGGTTCCCGGGAACCTGAGTGCAGCTCAGGTGGCCGCGCAGAA
TGCAGTGGAGGCTGCCAAGAACCAGAAGGCTGGGCTGGGCCCTCGCTTCTCGCCCATCACCCCTCTCCAACAAGC
TGCTCCCGGAGTGGGTCCCCCTTCAGCCAGGCCCCAGCTCCCCAACTACCCCCAGGACCCCCCTGGCGCCCCAA
GCCACCACCTGCTTCCCAGCCCAGTCTGGTCTCCACTGTGGCCCCCTGGCTCCGGCCTGGCTCCCACGGCACAGCC
CGGGGCACCGTCCATGGCAGGCACGTGTGGCCCCAGGAGGGGTGAGCGGCCCTTCCCCAGCCCAGCTGGGAGCCCC
AGCCCTCGGTGGGCAGCAGTCAGTCTCCAATAAGCTTCTGGCCTGGAGCGGGGTCTGGAGTGGCAAGAGAAACC
CAAACCTGCCTCAGTGGATGCCAACCAAGCTGACGCGGTCACTGCCCTGCCAGGTCTACGTGAATCATGGCGA
GAACCTGAAGACGGAGCAGTGGCCCCAGAAGCTGATCATGCAGCTCATCCCCAGCAGCTGCTGACCACCCTGGG
CCCTTTGTTCCGGAACCTCAAGGATGGTCCAGTTCATTTCACCAACAAGGACCTGGAGTCTCTCAAAGGCCTCTA
CCGCATCATGGGCAACGGCTTCGCGGGCTGCGTGCACTTCCCCCACACGGCGCCCTGTGAGGTGCGCGTGTCTCAT
GCTCCTGTACTCGTCCAAGAAGAAGATCTTCATGGGCCTCATCCCTACGACCAGAGCGGCTTCGTCAACGGCAT
CCGGCAGGTTCATACCAACCACAAGCAGGTCCAGCAGCAGAAGCTGGAGCAGCAGCAGCGAGGAATGGGGGGACA
GCAGGCACCCCCCAGGGCTGGGGGCCATTCTGGAGGACCAAGCCAGGCCCTCACAGAATCTGCTCCAGCTCCGCC
CACCAGCAGCCCCAGCCTCAGGGTACCGTAGGGGCCTCTGGGGCCACGGGGCAGCCCCAGCCCCAAGGTACTGCCC
AGCCCCCGCCAGGTGCCCCCTCAAGGCCCTCCTGGAGCAGCTTCTGGCCCACCCCTCCTGGACCCATCCTTCGGC
CCCAGAACCCTGGGGCCAACCCTCAGCTGCGAAGCCTCCTCCTCAACCCACCACCGCCGAGACTGGGGTGGCCC
CACCAGGCTCCCTCCACCACCTGCCAGTCTGGCCCCGACAACCTCCCCCTCGGGCTCCACTGCCAGGTAA
GGGGACCCGGGGGAGGGCAGAGGTCTGGACTGAGTGTCCCAGCAGCTCCTGGGCTAGAGCACCAAGACCAAGTGC
TCCTGGGAAGTAAAGACATAGGATCCAAGAATGAGGGTTCCCCAGCCGGGCCTGCAGCCCAGCGTCATGGAGGA
CGACATCCTCATGGATCTCATCTGAATCCCCAACACCCAATAAAGTTCCTTTTAAACACAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5533

MVPGSEGPARGSVVADVVFVIEGTANLGPYFEGLRKHYLLPAIEYFNGGPPAETDFGGDYGGTQYSLVVFNTVD
CAPESYVQCHAPTSSAYEFVTWLDGIKFMGGGGESCSLIAEGLSTALQLFDDFKKMREQIGQTHRVCLLICNSPP
YLLPAVESTTYSGCTTENLVQQIGERGIHFSIVSPRKLPALRLLFEKAAPPALLEPLQPPTDVSQDPRHMLVRG
LVLPVGGGSALGPLQSKQPVPPLPPAAPSGATLSAAPQQPLPPVPPQYQVPGNLSAAQVAAQNAVEAAKNQKAGLG
PRFSPITPLQQAAPGVGPPFSQAPAPQLPPGPPGAPKPPPASQPSLVSTVAPGSGLAPTAQPGAPSMAGTVAPGG
VSGPSPAQLGAPALGGQQSVSNKLLAWSGVLEWQEKPKPASVDANTKLTRSLPCQVYVNHGENLKTEQWPQKLIM
QLIPQQLLTTLGPLFRNSRMVQFHFTNKDLES�KGLYRIMGNGFAGCVHFPHTAPCEVRVLMMLLYSSKKKIFMGL
IPYDQSGFVNGIRQVITNHKQVQQQKLEQQQQRGMGGQQAPPRAGAHSGGPSQALTESAPAPPTAAPASGYRRGLW
GHGAAPAPRYCPAPARCPSPRSWSSFWPTPSWTHPSAPEPWGQPSAAKPPFPPTTAADWGAPTPGLPPPPAQSWP
AQLPPRAPLPFGKGTIRGRAEVWTECPSSSWARAPRPSAPGK

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FIGURE 5534

GGCACGAGGGCCCTCTGGCGGCTCCGGACCACAGGCCGAGTTACTCTGATTACCGCCATGCTCCAAGACCCGCAC
TGACAGTCCCCACGTGAGGGACCGCGGTGGGAGTCCTAAATGGGGGAGGAGGGGACGGGCGGCACGTGTGCATCTG
CTGTGCCTCGCGGCCCTCCAGCGGGGTCCCCCTATTCTGCAGGAGCAGTCGCGGCGGCGCCCCGCCCGTCAGCAG
CTCCCGTTCTCTGTTCATCGGTTCCCTCAATGGAGTCCACATGTTTGGGCAGAATCTGGAGGTGCAGCTGAGCTCT
GCGAGGACCGAGAACACGACTGTGGTGTGGAAAAGCTTCCATGACAGCATACCCTCATTGTTCTGTTCATCTGAG
GTGGGCATCTCTGAGCTGAGGCTGGAGAGACTACTCCAAATGGTGTGGAGCCATGGTCCCTTCTGTGGGACTT
GAAGAACTGACCAATATCCGCAACGTGGAGAGACTGAAGAAGGACTTGAGGGCCAGTTATTGCCTCATCGACAGC
TTCTGGGGGACTCGGAGCTCATCGGGGACCTGACCCAGTGTGTGGACTGCGTGATTCCCTCCAGAGGGGTCCCTC
TTGCAGGAAGCCCTCTCCGGGTTGCTGAGGCCGCGGGCACGACCTTCGTGAGTCTGGTGGTGTCCGGCCGGGTG
GTGGCAGCAACAGAGGGTTGGTGGCGGCTGGGGACGCCCAGGCGCGTGTCTCCCTGGCTGGTGGGGTCCCTG
CCGCCGAGACCGCTCGCGACTACCCGGTGTACCTGCCGCACGGGAGCCCCACGGTCCCACACCGGCTCCTGACC
CTGACTCTGCTGCCGAGCCTGGAGCTGTGTCTACTCTGCGGGCCGAGCCCACCCCTCAGCCAGTTGTATCCACAG
CTTCTGGAGCGCTGGTGGCAGCCACTGCTGGACCCGTTGCGGGCCTGTCTGCCGTTGGGACCCCGGGCGCTGCC
AGTGGCTTCCCCCTTCACACAGACATCCTCGGGCTGCTGCTCCTCCACCTGGAAGTGAAGCGCTGCCTCTTCACC
GTGGAGCCCTTGGGGGATAAAGAGCCTTCACCAGAACAGCGCCGGCGCCTCCTCCGAACTTCTATACCTGGTC
ACCTCCACGCACTTCCCACAGAGCCAGGGCCACCAGAGAAGACAGAAGATGAGGTCTACCAGGCCAGCTGCCC
AGAGCTTGCTACCTGGTGTGGGGACTGAGGAACCAGGCACAGGAGTGCCTCTGGTGGCCTTGCAGCTGGGGCTT
CGGCGGCTGCTGCTGCTGCTGCTCTCCCGAGAGTCCACCCATGGGCTGCGAAGCCTGGCCACCCACACTCTGCAT
GCCCTCACCCCACTTCTTTGACTACCTAGCAGTGGGTGATGGACACAGACATGGGGCTGTTAGCGTCTCTCTGTT
TATTGCTCACAATAATACACAGCCCCTGATGGGGAGGGGGTAGGAGGGGCTACAACAGGGTGGGGTGGGAGGG
GAGGAGACATCCACTTCCCTGGCCCCCTCTCCCTCTGTGCTTGGGGGGGAAAGGGAGGGAGGGGGACTCCCCCTA
ACCCCCAGAATGTAAACAGCAGCAGATGAACAAAAATAAAATACAAAAGGCCGAAAAAAAAAAAAAAAAAAAAA
AA

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FIGURE 5535

MGEEGTGGTVHLLCLAASSGVPLFCRSSRGGAPARQQLPFSVIGSLNGVHMFQONLEVQLSSARTENTTVVWKSF
HDSITLIVLSSEVGISELRRLERLLQMVFAMVLLVGLEELTNIRNVERLKKDLRASyclIDSFLGDSELIGDLTQ
CVDCVIPPEGSLLEALS GF AEAAAGTTFVSLVVSGRVVAATEGWRLGTPEAVLLPWLVGSLPPQTARDYPVYLP
HGSPTVPHRLTLTLPSLELCLLCGPSPPLSQLYPQLLERWWQPLLDPLRACLPLGPRALPSGFPLHTDIIGLL
LLHLELKRCLFTVEPLGDKEPSPEQRRRLRNFTLVTSTHFPPEPGPPEKTEDEVYQAQLPRACYLVLGTEEPG
TGVRLVALQLGLRRLLLLLSPQSPTHGLRSLATHTLHALTPLL

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FIGURE 5536

CGGCTCAGAGCTCCGGACCGCGGGCGGAGGGGAGGGGCGAGGGGGCGGTGCCACGGCCTGCCAGCCCCGCCCCG
CCCCGCCAGCCAGCCCTCCCCGCGGGCGGCTCGGCTCCTTGCGCGCTGCCTGGGGTCCCTTCCGCCCCGGTCCCCGCT
TGCCAGCCCCCGCTGCTCTGTGCCCTGTCCGGCCAGGCCTGGAGCCGACACCACCGCCATCATGCCGGCCGTGTC
CAAGGGCGATGGGATGCGGGGGCTCGCGGTGTTTCATCTCCGACATCCGGAACGTGTAAGAGCAAAGAGGCGGAAAT
TAAGAGAATCAACAAGGAACTGGCCAACATCCGCTCCAAGTTCAAAGGAGACAAAGCCTTGATGGCTACAGTAA
GAAAAAATATGTGTGTAAGTCTTTTCATCTTCTGCTTGCCCATGACATTGACTTTGGGCACATGGAGGCTGT
GAATCTGTTGAGTTCCAATAAATACACAGAGAAGCAAATAGGTTACCTGTTTCTGCTGGTGAAGTTCGAA
CTCGGAGCTGATCCGCTCATCAACAACGCCATCAAGAATGACCTGGCCAGCCGCAACCCCCACCTTCATGTGCC
GGCCCTGCACTGCATCGCCAACGTGGGCGAGCCGGGAGATGGGCGAGGCCTTTGCCGCTGACATCCCCCGCATCCT
GGTGGCCGGGGACAGCATGGACAGTGTCAAGCAGAGTGGCGCCCTGTGCCCTCTTCGACTGTACAAGGCCTCGCC
TGACCTGGTGGCCATGGGCGAGTGGACGGCGCGTGTGGTACACCTGCTCAATGACCAGCACATGGGTGTGGTAC
GGCCGCCGTGAGCCTCATCACCTGTCTCTGCAAGAAGAACCAGATGACTTCAAGACGTGCGTCTCTCTGGCTGT
GTCGCGCTGAGCCGGATCGTCTCCTCTGCCCTCCACCGACCTCCAGGACTACACCTACTTCTGCTCCAGCACC
CTGGCTCTCGGTGAAGCTCCTGCGGCTGCTGCAGTGCTACCCGCCCTCCAGAGGATGCGGCTGTGAAGGGGCGGCT
GGTGAATGTCTGGAGACTGTGCTCAACAAGGCCAGGAGCCCCCAAATCCAAGAAGGTGCAGCATTCCAACGC
CAAGAAGCCATCCTCTTCGAGACCATCAGCCTCATATCCACTATGACAGTGAGCCCAACCTCCTGGTTCGGGC
CTGCAACCAGCTGGGCCAGTTCTTGACAGCACCAGGAGACCAACCTGCGCTACCTGGCCCTGGAGAGCATGTGCAC
GCTGGCCAGCTCCGAGTTCTCCCATGAAGCCGTCAAGACGCACATTGACACCGTCATCAATGCCCTCAAGACGGA
GCGGGACGTGAGCGTGGCGCAGCGGGCGGCTGACCTCCTCTACGCCATGTGTGACCGGAGCAATGCCAAGCAGAT
CGTGTGAGAGATGCTGCGGTACCTGGAGACGGCAGACTACGCCATCCGCGAGGAGATCGTCTGAAGGTGGCCAT
CCTGGCCGAGAAGTACGCCGTGGACTACAGCTGGTACGTGGACACCATCCTCAACCTCATCCGATTGCGGGCGA
CTACGTGAGTGAGGAGGTGTGGTACCGTGTGCTACAGATCGTCACCAACCGTGATGACGTCCAGGGCTATGCCGC
CAAGACCGTCTTTGAGGCGCTCCAGGCCCTGCCTGTACAGAGAACATGGTGAAGGTGGCGGCTACATCCTTGG
GGAGTTTGGGAACCTGATTGCTGGGGACCCCCGCTCCAGCCCCCAGTGCAGTTCTCCCTGCTCCACTCCAAGTT
CCATCTGTGCAGCGTGGCCACGCGGGCGCTGCTGTGTCACCTACATCAAGTTCATCAACCTCTTCCCCGAGAC
CAAGGCCACCATCCAGGCCCTCCTGCGGGCGGCTCCAGCTGCGCAATGCTGACGTGGAGCTGCAGCAGCAGC
CGTGGAGTACCTCACCTCAGCTCAGTGGCCAGCACAGCTGCTGGCCACGGTGTGAGGAGATGCCGCCCTT
CCCCGAGCGGAGTCTGCTCATCTGCGCAAGCTGAAACGCAAGAAGGGGCCAGGGGCGGCGAGCGCCCTGGACGA
TGGCCGAGGGACCCAGCAGCAACGACATCAACGGGGGCGATGGAGCCACCCCGAGCTGTGTGACGCGCCTC
GCCCTCCGCGACCTCCTGGGGCTGCGGGCAGCCCTCCCCGGCAGCACCCCGGCTTCTGCAGGAGAGGAA
CCTTCTGGTGGACGTCTTCGATGGCCCGGCGCCAGCCAGCCTGGGGCCACCCCGAGGAGGCCTTCTCAG
CGAGCTGGAGCCGCTGCCCCGAGAGCCCATGGCTTTGCTGGCTGACCCAGCTCCAGCTGCTGACCCAGGTCC
TGAGGACATCGGCCCTCCCATTCGGAAGCCGATGAGTTGCTGAATAAGTTTGTGTGAAGAACAACGGGGTCTT
GTTGAGAACAGCTGCTGCAGATCGGAGTCAAGTCAGAGTTCCGACAGAACCCTGGGCCGATGTATCTCTTCTA
TGGCAACAAGACCTCGGTGCAGTTCCAGAATTTCTACCCACTGTGGTTACCCGGGAGACCTCCAGACTCAGCT
GGCTGTGCAGACCAAGCGCGTGGCGGCGCAGGTGGACGGCGGCGCAGGTGCAGCAGGTGCTCAATATCGAGTG
CCTGCGGGACTTCTGACGCCCCGCTGCTGTCCGTGCGCTTCCGGTACGGTGGCGCCCCCAGGCCCTCACCT
GAAGCTCCAGTGACCATCAACAAGTTCTTCCAGCCACCGAGATGGCGGCCAGGATTTCTTCCAGCGCTGGAA
GCAGCTGAGCCTCCCTCAACAGGAGGCGCAGAAAATCTTCAAAGCCAACCACCCCATGGACGCAGAAGTTACTAA
GGCCAAGCTTCTGGGGTTTGGCTCTGCTCTCCTGGACAATGTGGACCCCAACCTGAGAACTTCGTGGGGGCGGG
GATCATCCAGACTAAAGCCCTGCAGGTGGGCTGTCTGCTTCGGCTGGAGCCCAATGCCAGGCCAGATGTACCG
GCTGACCTGCGCACCAGCAAGGAGCCGCTCTCCGTCACCTGTGTGAGCTGCTGGCACAGCAGTTCTGAGCCCT
GGACTCTGCCCCGGGGGATGTGGCCGGCACTGGGCAGCCCTTGGACTGAGGCAGTTTGGTGGATGGGGACCT
CCACTGGTGACAGAGAAGACACCAGGTTTGGGGGATGCCTGGGACTTTCCTCCGGCCTTTTGTATTTTATTTT
TGTTCACTCTGCTGCTGTTTACATTCTGGGGGTTAGGGGGAGTCCCCCTCCCTCCCTTTCCCCCAAGCACAGA
GGGGAGAGGGGCCAGGGAAGTGGATGTCTCTCCCTCCACCCACCCCTGTTGTAGCCCTCCTACCCCTCCC
CATCCAGGGGCTGTGTATTATTGTGAGCGAATAAACAGAGAGACGCTAA

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FIGURE 5537

AGGCGCAGACGGGGAAGCGGAGCCAACATGCCAGTGGCCCGGAGCTGGGTTTGTACAAAACTTATGTGACCCCG
CGGAGACCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCAACGTCCTGCTGCGGCGGCTGCTC
CGCATTGGGGTGCTGGATGAGGGCAAGACGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAG
AGACGCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTGGCGTACTGATCCGCCAG
CGCCGTGTCAAGGTCCGCAATCAGGTGGCGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCGCATC
GACTTGTCTCTGCGCTCTCCCTATGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAACGCCAAGAAGGGCCAGG
GTGAGGGTGGGGCTGGAGACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGT
TTTCCTGCCAAATAAACAGGATCAGCACTTTAC

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FIGURE 5538

MPVARSWVCHKTYVTPRRPF EKSRLDQELKLIGNVLLRRLLRIGVLDEGKTKLDYILGLKIEDFLERRLQTQVFK
LGLAKSIHHAGVLIRQRRVRVRNQVANIPSFIVRLDSQKRIDLRLSPYGVAAAPAA

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FIGURE 5539

GTGGGCAGCCGAGGCCGCGAACTGCATCATGGAGAATTTTGTAGCCACCTTGGCTAATGGGATGAGCCTCCAGCC
GCCTCTTGAAGAAGTGTCTGTGGCCAGGCGGAAAGCAGTGAGAAGCCCAACGCTGAGGACATGACATCCAAAGA
TTACTACTTTGACTCCTACGCACACTTTGGCATCCACGAGGAGATGCTGAAGGACGAGGTGCGCACCCCTCACTTA
CCGCAACTCCATGTTTCATAACCGGCACCTCTTCAAGGACAAGGTGGTGCTGGACGTCGGCTCGGGCACCGGCAT
CCTCTGCATGTTTGCTGCCAAGGCCGGGGCCCGCAAGGTCATCGGGATCGTGTGTTCCAGTATCTCTGATTATGC
GGTGAAGATCGTCAAAGCCAACAAGTTAGACCACGTGGTGACCATCATCAAGGGGAAGGTGGAGGAGGTGGAGCT
CCCAGTGGAGAAGGTGGCATCATCATCAGCGAGTGGATGGGCTACTGCCTCTTCTACGAGTCCATGCTCAACACC
GTGCTCTATGCCCCGGGACAAGTGTGGCGCCCGATGGCCTCATCTTCCCAGACCGGGCCACGCTGTATGTGACGGC
CATCGAGGACCGGCAGTACAAAGACTACAAGATCCACTGGTGGGAGAACGTGTATGGCTTCGACATGTCTTGCA
CAAAGATGTGGCCATTAAAGGAGCCCCTAGTGGATGTCGTGGACCCCAAACAGCTGGTCACCAACGCCTGCCTCAT
AAAGGAGGTGGACATCTATACCGTCAAGGTGGAAGACCTGACCTTCACCTCCCCGTTCTGCCTGCAAGTGAAGCG
GAATGACTACGTGCACGCCCTGGTGGCCTACTTCAACATCGAGTTCACACGCTGCCACAAGAGGACCGGCTTCTC
CACCAGCCCCGAGTCCCCGTACACGCACTGGAAGCAGACGGTGTCTACATGGAGGACTACCTGACCGTGAAGAC
GGGCGAGGAGATCTTCGGCACCATCGGCATGCGGCCAACGCCAAGAACAACCGGGACCTGGACTTCACCATCGA
CCTGGACTTCAAGGGCCAGCTGTGCGAGCTGTCTGTCTCCACCGACTACCGGATGCGCTTGAGGGCCCCGGCTCTCCC
GCCCTGCACGAGCCCAGGGGCTGAGCGTTCTAGGCGGTTTCGGGGCTCCCCCTTCCCTCTCCCTCCCTCCCGCAG
AAGGGGGTTTTAGGGCCCTGGGCTGGGGGGATGGGGAGGGCACATCGTGACTGTGTTTTTCATAACTTATGTTTT
TATATGGTTGCATTTACGCCAATAAATCCTCAGCTGGG

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FIGURE 5540

MENFVATLANGMSLQPPLEEVSCGQAESSEKPNADMTSKDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRH
LFKDKVVLVDVGSGTGILCMFAAKAGARKVIGIVCSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVASS
ASGWATASSTSPCSTPCSMPTSVAPDGLIFPDRTLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPL
VDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTH
WKQTVFYMEDYLTVKTGEEIFGTIGMRPNAKNNRDLDFITIDLDFKGQLCELSCTDYMR

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FIGURE 5541

AAGTAAGTATCCCCACTTTT CAGGGTAGCATCCTCTTTCCCTAGTTATTT CAGTGCAGAATCGATT CACGTGTAAG
CCTCTACCTCCTGCACTTACCCCAATGTAGACCCCTTCCACAGTCCCCCTACAGAAGATCTCCCAAAACATTTC
CAACACAGAACTTCCATTCAATTCCCCTCCGACTGCCCGCCTCCCTCCTCCAGGACAGAGCACGCCCCAGGTTTC
GAGACTGAACTACCCCATCTACGGAGTCCACCCCTCCCTCTCTAGAACCCCTCAGTGTAGACGCCTCCTCTTT
TCTCTTTTCCCTACTTTTTCTAGTTTTTCTGCAGCCGACCTCCAGCGTCGGCCACTGTAGCTCCTTCCTTGC
TCCACTTTCCCCAGAGTACACAGCCTGCCTTTCCACTCTCCGTGCAGACCCATCCTCTTTCCCGCTCCTCGCTCT
CGGACGCCACCAACGCTCTCCCGGGCTCTTCCGCGTTACCTACGATGGAAGGTCGGGGCGTGCGGGCAGCTGGAA
CCCACCCCTGTCTTGGAGCTCCGGGTAGCTCTCAAACCTCGAGGCTGCGCACCCCTTTCCCGTCAGCTGAGCTCT
AGAGCGCTGGGGCTTTCTTTTTGATCGACTTCTTGAATAAAACCAACTTTATCATTCTTTGGGTAACAGACCCA
AAAGCCGATGGGACGGCCCGCTGGGCTGTTCCCGCCCCCTATGCCCTTTTTTGGGTTTCCGGCCAGAGGCATGCTG
GGAGCGTCACATGCAAATTGAGCGTGCACCCAGCGTTCCGCCCTTTCTACGCTGGGCCGGTTATCGACCCGGCCC
AGTGCAGGCGCGGGAAAGTTGAACTAATAAAGTTTGTACGAGTTCAGTGGAGGAGACCGCAAGTTGAGTGGAG
GAGGCGCGGGTGGGGCCCCGGACAGGTGCCTCCATGGCAGGCTCTGAAGAGCTGGGGCTCCGGGAAGACACGCT
GAGGGTCCTAGCTGCCTTCCTTAGGCGTGGTGAAGCTGCCGGGTCTCCTGTTCCAACCTCCACCTAGAAGCCCTGC
CCAAGAAGAGCCAACAGACTTCCTGAGCCGCTTCGAAGATGTCTTCCCTGCTCCCTGGGGCGAGGAGCAGCCCC
CTCTGAGTCCCCCTCGGCCTTGCTCTCTGCCCATCCGCCCTGCTATGGTTTAGAGCCTGGCCAGCTACTCCAGA
CTTCTATGCTTTGGTGGCCACGCGCTGGAACAGCTGGTCCAAGAGCAGCTGAAATCTCCGCCAGCCAGAATT
ACAGGGTCCCCCATCGACAGAGAAGGAAGCCATACTGCGGAGGCTGGTGGCCCTGCTGGAGGAGGAGGCAGAAGT
CATTAACCAGAAGCTGGCCTCGGACCCCGCCCTGCGCAGCAAGCTGGTCCGCCTGTCTCCGACTCTTTCGCCCCG
CCTGGTGGAGCTGTTCTGTAGCCGGGATGACAGCTCTCGCCAAGCCGAGCATGCCCCGGGGCCCCCGCCTCCTTC
CCCGGAGCCCCCTGGCCCGCCTGGCCCTAGCCATGGAGCTGAGCCGGCGCGTGGCCGGGCTGGGGGGCACCTGGC
CGGACTCAGCGTGGAGCAAGTGCACAGCTTCACGCCCTGGATCCAGGCCACGGGGGCTGGGAGGGCATCCTGGC
TGTTTCACCCGTGGACTTGAACCTTGCCATTGGACTGA

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FIGURE 5542

GGTTCCAGCTGCCCGCACGCCCCGACCTTCCATCGTAGGCCGGACC**ATCG**GGAACCCCAAAGCCACGGATCCTGCC
CTGGCTGGTGTGCGAGCTGGACCTGGGGCAACTGGAGGGCGTGGCCTGGGTGAACAAGAGCCGCACGCGCTTCCG
CATCCCTTGGAAGCACGGCCTACGGCAGGATGCACAGCAGGAGGATTTCCGAATCTTCCAGGCCTGGGCGGAGGC
CACTGGTGCATATGTTCCCGGGAGGGATAAGCCAGACCTGCCAACCTGGAAGAGGAATTTCCGCTCTGCCCTCAA
CCGCAAAGAAGGGTTGCGTTTAGCAGAGGACCGGAGCAAGGACCCTCACGACCCACATAAAATCTACGAGTTTGT
GAACTCAGGAGTTGGGGACTTTTCCAGCCAGACACCTCTCCGGACACCAATGGTGGAGGCAGTACTTCTGATAC
CCAGGAAGACATTCTGGATGAGTTACTGGGTAACATGGTGTGGCCCCACTCCCAGATCCGGGACCCCCAAGCCT
GGCTGTAGCCCCCTGAGCCCTGCCCTCAGCCCCTGCGGAGCCCCAGCTTGGACAATCCCCTCCCTTCCCAAACCT
GGGGCCCTCTGAGAACCCACTGAAGCGGCTGTTGGTGCCGGGGGAAGAGTGGGAGTTTCGAGGTGACAGCCTTCTA
CCGGGGCCGCCAAGTCTTCCAGCAGACCATCTCCTGCCCGGAGGGCCCTGCGGCTGGTGGGGTCCGAAGTGGGAGA
CAGGACGCTGCCTGGATGGCCAGTCACACTGCCAGACCCTGGCATGTCCCTGACAGACAGGGGAGTGATGAGCTA
CGTGAGGCATGTGCTGAGCTGCCTGGGTGGGGGACTGGCTCTCTGGCGGGCCGGGCAGTGGCTCTGGGCCCAGCG
GCTGGGGCACTGCCACACATACTGGGCAGTGAGCGAGGAGCTGCTCCCCAACAGCGGGCATGGGCCTGATGGCGA
GGTCCCCAAGGACAAGGAAGGAGGCGTGTTTGACCTGGGGCCCTTCATTGTAGATCTGATTACCTTCACGGAAGG
AAGCGGACGCTCACCACGCTATGCCCTCTGTTCTGTGTGGGGGAGTCATGGCCCCAGGACCAGCCGTGGACCAA
GAGGCTCGTGATGGTCAAGGTTGTGCCACGTGCCTCAGGGCCTTGGTAGAAATGGCCCGGTAGGGGGTGCCTC
CTCCCTGGAGAATACTGTGGACCTGCACATTTCCAACAGCCACCCACTCTCCCTCACCTCCGACCAGTACAAGGC
CTACCTGCAGGACTTGGTGGAGGGCATGGATTTCCAGGGCCCTGGGGAGAGCT**CGA**CCCTCGCTCCTCATGGTGT
GCCTCCAACCCCCCTGTTCCCCACCACCTCAACCAATAAACTGGTTCCTGCTATGAA

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FIGURE 5543

MGTPKPRILPWLVSQDLGQLEGVAWVNKSRTFRIPWKHGLRQDAQQEDFGIFQAWAEATGAYVPGRDKPDLPT
WKRNFRSALNRKEGLRLAEDRSKDPHDPHKIYEFVNSGVGDFSQPDTSPTDNGGGSTSDTQEDILDELLGNMVL
PLPDGPPSLAVAPEPCPQPLRSPSLDNPTFPNLGPSENPLKRLLVPGEEWEFEVTA FYRGRQVFQQTISCPEG
LRLVGSEVGDRITLPGWPVTLPDPGMSLTDRGVMSYVRHVLSCLGGLALWRAGQWLWAQRLGHCHTYWAVSEELL
PNSGHGPDGEVPKDKEGGVFDLGPFIVDLITFTEGSGRSPRYALWFCVGESWPQDQPWTKRLVMVKVVPTCLRAL
VEMARVGGASSENTVDLHISNSHPLSLTSDQYKAYLQDLVEGMDFQGPGES

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FIGURE 5544A

CTGGGGTGTCTGTGCTGGGTCCAGCGCCACCCAAAGCACAGGGTGGAGTGGGAGGAGGTGGAGGAGAGGAGGGGT
GCCAGAGGGGATGCTGAGGGGAGATAGTGTGGGGCCCTTGAGGTCTTCTATGCTATCCTCTACTTCCATCCTTTCT
CCCGGGACCTCCACTCCAACTCTCCCCCTGGACCCCAAGGTGACCATGGAGGAAGAAGATGAGTCTCGAGGGA
AGACAGAGGAGTCCGGGGGAGGATCGGGGCGATGGTCCGCCAGACAGAGACCCACGCTTTCTCCTTCTGCCTTTA
TCCTGCGAGCCATCCAGCAGGCTGTGGGAAGCTCCCTGCAGGGGGACCTGCCAATGATAAAGATGGCTCTCGGT
GTCATGGCCTTCGATGGCGGCGCTGCCGGAGTCCACGGTCAGAGCCCCGTTCCAGGAATCAGGGGGCACTGACA
CGGCTACTGTGTTGGACATGGCCACGGACAGCTTCTCGCAGGGCTGGTGAGTGTCTGGATCCCCCGGATACCT
GGGTTCACGACCGCTGGACCTGCCGCTGGCGAAAGTGAGGACATGCTGGAGCTGGTGGCTGAGGTCCGAATCG
GGGACAGAGATCCCATCCCTCTGCCTGTGCCAGCCTGCTGCCCGCTCTCAGGGCCTGGAGGACGGGCAAAACGG
TTTCTCCACAGTCGAACTCCTCTAGGCCCACCTGTGCCCGCTACCTACCTTGGGCACGGGAGACGGGGGCCCTG
CCCCACCCCTGCCCTCTCTGTCATCCTCCTCCCTTCCCTTCTCCTCATCTTCTCCTCCCTTCCCTTCCCT
CACCCCAACCGCCCTGCAACCCCAAGCCCACTGCCCGCGATTGATATCTATGACCCCTTCCACCCCAACCG
ACGAGGCCTACTCTCCACCGCCTGCTCCGGAGCAAAAGTACGACCCCTTTTGAGCCACCGGCTCCAACCCCAAGCT
CATCAGCGGGGACCCCTCACCTGAGGAGGAAGAGGAGGAGGAAGAGGAAGAAGAAGAGGAAGAGGAAGACGAGG
AGGAGGAGGAAGGCCTGTCCAGAGCATCAGCCGCATCTCGGAGACCTGGCGGGCATCTACGATGACAACAGCC
TGAGCCAGGACTTCCAGGTGACGAGAGCCCCCGCCCGGACGCGCAGCCACACAGCCGACTCCCGCCCCTGAA
CGCCGCCCAAGGTGGACTCCACCCGGGCTGATGGAGCCATGCGCCGGCGGGTCTTCGTGGTGGGACCGAGGCAG
AGGCTTGTGCGGAAGGCAAGGTCTCGGTGGAGGTGGTGACCGCTGGTGGAGCCGCCCTCCCGCCGCCCTGTGC
CGCCGGCGACTCGGAGATCGAGGAAGGGGAGATCGTCCAGCCGGAGGAGGCCAGGCTGGCGCTGTCCCTCT
TCCGCCCGGCGGCGCGGCGCGCCCGGCTACACCGCGCGCTCGGCCACCCCAAGGCCAGCCCTTCTCAGC
CTCCCGCTCCGCGGGCCCCGAGGGGACGACTTCTTGTCCCTGCATGCGGAGTGGAGCGGCGAGGGCGCCCTGC
AGGTGGACCTAGGGGAGCGGCTCCCGCGCGCGCGCGCGGCTCGCGTGGGGCGGCTGGACCTGCGCCGCA
AGATCCTGACCCAACGGGCGGAGCGCTACCGCCAGCGCTCGCCCTCCCGGCGCGCGCGCGCGCGCGCGCGCG
CTGCTGGTCCGCCCACGCGCAAGAAGTCCAGGCGGGAACGCAAGCGCAGCGGCGAGGCCAAGGAGGCCGCTCGT
CCTCGTGGGACCCAGCCAGCGCGCGCGCGCGCGCGCGCTCGCCCTGGGACTCCAAGAAGCACCCTCGCGGGACC
GCAAGCCCGGCTCCACGCTCGTCCGCGCGCGCGCGCGCGCTCCCGCTCCCGCTCCCGCTCCCGCTCCACCGCC
GCCGCTCGCGCAGCACCGACCGCGCGCGCGCGCGCGCGCTCGCGTCCCGGAGAGCGGCGACGGCGGC
GGCGCTCCCGCTCCCGCGCGCGCGCGCGCGCGCGCTTCTCATCGTCTCGTCTCGAGGCGCGAGCGGACCGCGGAAACACC
GGGACGGTGGCGGCGAGCAAGAAGAAGAAGAAGCGGTGCGGTCGCGGTCCCGGGTGAGAAGCGGTCTGGGATGGCAGCG
AGAAGGCCCCGCGCGCGCGCGCGCGCGCGCTTGGCTCCACCTCGTGTGGTGACCGCGACAGCCGCGCGCGGGGG
CCGTGCCACCTCCATCCAGGACCTCAGGACCAGACCTTTCGCCATCAAGCGGACCATCAGGTGGGCGCGC
TTGACAAGTCCGACCCCGAGGACCTTCTCTGCTCCGGCTCCTACCTAAGCGGAGGTCTGTACGACTCCG
AGGGACTGAGCGGCGAGGAGCGGGGCGGCAAGAGCAGCCAGAAGGATCGGCGCGCTCGGGGCGCTCCTCCT
CCTCCTTCCCGGAGAAAGGGGTCTCGTGGAAAGGCGCTGGACGGGGGTGACCGGATCGGGACAGGGACAGAG
ATAGGGACAGGGACAGGTATCCAAGAAGGCCCGGCCCCCAAGGAGTCGGCGCTTCTCAGGGCCCCCGCAA
AGCCACAGTCAGCAGCGGCTCAGGCTCTTATCTCTCGTCTCTCTTCTTCCCGGAAGGTGAAGCTGCAGT
CCAAGGTGGCGGTGTGATCCGCGAGGGTGTAGCAGCACACCCCGGCCAAGGATGCCGCTCAGCCGGCCTGG
GCTCCATTGGCGTCAAATTCAGCCGTGACCGCGAGAGTGCCTCCCCCTTCTCAAACCTGACGAGCGGGCCCCCA
CTGAGATGGCCAAAGCAGCTCCGGGCGACCAAGCCAAAAAGACCAAGGTCAAGGCCAAGGCAGGGGCCAAGA
AAACCAAGGGGACCAAGGGAAGACCAAGCCATCCAAGACCAGGAAAAAGGTCCGAGTGGAGGTGGCAGCGGGG
GCAGTGGTGGCCAGGTGTGCTGAAGAAGTCCAAGGCGGATAGCTGCAGCCAGGCGGCAGGCACCAAGGGGGCGG
AGGAGACTTCTGGTCCGGGGAGGAGCGGGCAGCCAAGGTTCCTAGCACCCCGCCCCCAAGGCAGCCCCACAC
CCCCTGCCCTCACTCCGACTCGCAGACCGTGGACAGCAGCTGCAAGACACCTGAGGTCTCCTTCTGCCCCGAGG
AGGCCACTGAGGAGGCTGGGGTCCGAGGTGGGGCGGAGGAGGAGGAGGAGGAAGAAGAAGAGGAGGAGGAAGAGG
AAGAGGAGGAGGAGCAGCAGCCTGTACCACCACGGCCACCAGCACTGCTGCAGCCGCCCAAGCACTGCCCCCA
GCGCGGGGTCCACAGCCGTGACTCGGGGGCGGAGGACGGGGCAGCTTCCCGTGTCTCCAGCTGCCACGTTGC
CCCCGCCATGCCCTGGAATCTGCCAGCTGGTGTGGACTGCACCACCAGCGCGTCTGGCCTTGAAGTCACTTC
TCTTCAAGATGGAAGAAGCCAACCTGGCGAGCCGAGCGAAGGCCAGGAGCTGATCCAGGCCACCAACCAGATCC

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FIGURE 5544B

TCAGCCACAGAAAGCCACCCTCAAGTCTGGGGATGACCCAGCTCCTGTGCCACCTCTTTGGGTCTGCCCCCTG
GCCCCCTCCAGCTACCTGCTTCCTGGCAGCCTCCCTCTGGGGGGCTGCGGTTGACCCCCCACCACCGGGC
TGGCTGCCACGTCTGACAAGAGAGAGGGCAGCAGCAGCTCTGAGGGCCGTGGGGACACAGATAAGTATCTGAAGA
AGCTGCACACGCAGGAGCGGGCGGTGGAGGAGGTGAAGCTGGCCATCAAGCCATACTATCAGAAGAAGGACATCA
CCAAGGAGGAGTACAAGGACATCCTGAGGAAGGCCGTCCACAAGATCTGCCACAGCAAAGTGGGGAAATCAACC
CAGTGAAGGTGAGCAACCTGGTGCGGGCCTACGTCCAGCGCTACCGCTACTTCCGCAAGCACGGTCGCAAGCCAG
GGGACCCCCCAGGGCCCCCACGGCCGCCAAGGAGCCAGGGCCCCCAGACAAGGGTGGCCCGGGCCTGCCCCCTGC
CCCCTCTCTGAGAGCCCTGGCCAGCTCTTCGCCCCCTCACCTCTTTGAAACTCTGGACGTATTTATGGCTCCACCT
CCCCACCTCCCTCCCCCGTCAGTGGGATGACTGGGGGAGGGTTGCTGCAGGGAAGAGGAGAGCCCCCTGCCCTGC
CCTGCCCCGTGTCCACCTCCCTTGCCCCCAAGCCTGTCCCCAGTGCCCCCTCCCTTCTGTTTGTGCCCCCTCTCCCC
AATTTCAATAAAGATTTTCATGAAACATT

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FIGURE 5545

MSILYFHPFSRDLHSKLSPLDPQVTMEEEDES RGKTEESGEDRGDGPDRDPTLSPSAFILRAIQQAVGSSLOGD
LPNDKDGS RCHGLRWRRCSRSEPRSQESGGTDATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRGESEDM
LELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKT VSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPS
PSSSSPSPPPPPPPPPAPPPAPPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSNPSSSAGTPSEEEEEEEEE
EEEEEEEEEEEEEEGLSQSISRISSETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTPPQVDSTRADGAMRR
RVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEEPRLALS LFRPGGRAAREPTPAASA
TPTAQPLPQPPAPRAPEGDDFLSLHAESDGEALQVDLGEPAPAPPAADSRWGGLDLRRKILTQRRERYRQRSPS
PAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSSGTQPAPPAPASPWDSKKHRSRDRKPGSHASSSARRRSR
SRSRSRSTRRRSRSTDRRRGGSRRRSRSREKRRRRRRRSASPPPATSSSSSSRRERHRGKHRDGGGSKKKKKRSRSR
GEKRS GDGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGPSPAPASS
PKREVLYDSEGLSGEERGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRDRSSKKARPKE
SAPSSGPPPKPPVSSGSGSSSSSSSCSSRKVKLQSKVAVLIREGVSSSTPAKDAASAGLGSIGVKFSRDRESRSP
FLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTKGTKGKTKPSKTRKKVRSGGGSGGSGGQVSLKSKADSC
SQAAGTKGAEETSWSGEERA AKVPSTPPPKAAPPPALTPDSQTVDSSCKTPEVSFLPEEATEEAGVRGGAE EEE
EEEEEEEEEEEEEEQQPATTATSTAAAAPSTAPSAGSTAGDGAEDGPASRVSQLPTLPPPMWNLPA GVDCTT
SGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSLGMTAPVPVTS LGLPPGPSSYLLPGSLPLGGC
GSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYQKKDITKEEYKDILRKAVHKI
CHSKSGEINPVKVS NLRAYVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGGPGLPLPPL

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FIGURE 5546

GGCACGAGGAAGCGACCGAGGGACTGGGAGTCGTTAGTGAGAGTTTCACTCTTGTTGCCTAGGCTGGAGTGCAAT
GGTGCGATCTTGGCTCATCACGACCTTCGCCTCCCAGGTTCAAGTGATTGTCCATTTACGCCTCCCGAGTAGCT
GGGATTACAGGATGACGCGGCATGGCAAGAACTGCACCGCAGGGGCCGTCTACACCTACCACGAGAAGAAGAAGG
ACACAGCGGCCTCGGGCTATGGGACCCAGAACATTGCGACTGAGCCGGGATGCCGTGAAGGACTTCGACTGCTGTT
GTCTCTCCCTGCAGCCTTGCCACGATCCTGTTGTACCCACAGATGGCTACCTGTATGAGCGTGAGGCCATCCTGG
AGTACATTCTGCACCAGAAGAAGGAGATTGCCCCGCAGATGAAGGCCTACGAGAAGCAGCGGGGCACCCGGCGCG
AGGAGCAGAAGGAGCTTCAGCGGGCGGCCTCGCAGGACCATGTGCGGGGCTTCCTGGAGAAGGAGTCGGCTATCG
TGAGCCGGCCCCCTCAACCTTTCACAGCCAAGGCCCTCTCGGGCACCAGCCCAGATGATGTCCAACCTGGGCCCCA
GTGTGGGTCCTCCAAGTAAGGACAAGGACAAAGTGCTGCCCAGCTTCTGGATCCCGTCGCTGACGCCCCGAAGCCA
AGGCCACCAAGCTGGAGAAGCCGTCCCGCACGGTGACCTGCCCCATGTCAGGGAAGCCCCCTGCGCATGTTCGGACC
TGACGCCCCGTGCACTTCACACCGCTAGACAGCTCCGTGGACCGCGTGGGGCTCATCACCCGCAGCGAGCGCTACG
TGTGTCCCGTGACCCGCGACAGCCTGAGCAACGCCACCCCTGCGCTGTGCTGCGGCCCTCTGGGGCTGTGGTCA
CCCTCGAATGCGTGGAGAAGCTGATTGGAAGGACATGGTGGACCCTGTGACTGGAGACAACTCACAGACCGCG
ACATCATCGTGCTGCAGCGGGCGGTACCGGCTTCGCGGGCTCCGGAGTGAAGCTGCAAGCGGAGAAATCACGGC
CGGTGATGCAGGCCTGAGTGTGTGCGGGAGACCAAATAAACCGGCTTGGGTGCGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5547

MTRHGKNCTAGAVYTYHEKKKDTAASGYGTQNIRLSRDAVKDFDCCCLSLQPCHDPVVTDPGYLYEREATILEYIL
HQQKEIAROMKAYEKQRGTRREEQKELQRAASQDHVRGFLEKESAIVSRPLNPFTAKALSGTSPDDVQPGPSVGP
PSKDKDKVLPSFWIPSLTPEAKATKLEKPSRTVTCPMMSGKPLRMSDLTPVHFTPLDSSVDRVGLITRSEYVCAV
TRDSL SNATPCAVLRPSGAVVTLECVKELIRKDMVDPVTGDKLTDRDIIVLQRGGTGFGAGSGVKLQAEKSRPVMQ
A

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FIGURE 5548

GAAGGATATTAAAGAGCACCTGCAGGAATTTTTTAAGGGGATGCCGGGGGAAGGGCTTGAAGGAGGAACTAAGGA
GGCTTCCAGAAGATTTTGATTAAACAGCGAGCGCTAGGGAAGGCCACGGGGATACAGAGGGGTAGGAGGAGGATCC
AGAGACCTCCAAGTTGTGGACTCCGGAGGCATCGAGTTCCTTTCCAGTTTTGTCAAGAAATCCCTGAGCGGCAG
ACACCCCTCAAAGTAAAAACGGGAACACAGAGAAGGAAAAAGAAGAACCAAGCGTTTTGAGAAACAAACAGG
CTGGGCCTAGGGCCTGGGGTGTGCCCTGCAACTGGGGGTGGGGCTGGATGTTCTTGGAGTCAGGGAGCAGCAGC
CTCCACAGGATGTGAGAGAGGAACTGGGGTCTCCAGTCACGGGAGCCAGGAGCCGGCCAGGGCCGAGGCAGGA
AGCGGAGCGAGGCTGAAGGGAACCTTCGTCTCTCAGCATGGGGGTCCCGCGGCTCAGCCCTGGGCGCTGGGGCT
CCTGCTCTTTTCTCCTTCTGGGAGCCTGGGGCGAGAAAGCCACCTCTCCCTCCTGTACCACCTTACCGCGGTGTC
CTCGCCTGCCCCGGGGACTCCTGCCTTCTGGGTGTCCGGCTGGCTGGGCCCGCAGCAGTACCTGAGCTACAATAG
CCTGCGGGGCGAGGCGGAGCCCTGTGGAGCTTGGGTCTGGGAAAACAGGTGTCTTGGTATTGGGAGAAAAGAGAC
CACAGATCTGAGGATCAAGGAGAAGCTCTTTCTGGAAGCTTTCAAAGCTTTGGGGGGAAAAGGTCCCTACACTCT
GCAGGGCCTGCTGGGCTGTGAACCTGGGCCCTGACAACACCTCGGTGCCACCGCCAAGTTCGCCCTGAACGGCGA
GGAGTTTATGAATTTGACCTCAAGCAGGGCACCTGGGGTGGGGACTGGCCCGAGGCCCTGGCTATCAGTCAGCG
GTGGCAGCAGCAGGACAAGGCGGCCAACAAAGGAGCTCACCTTCTGCTATTCTCCTGCCCCGACCGCTGCGGGA
GCACCTGGAGAGGGGCGCGGAAACCTGGAGTGGAAGGAGCCCCCTCCATGCGCCTGAAGGCCCGACCCAGCAG
CCCTGGCTTTTCCGTGCTTACCTGCAGCGCCTTCTCCTTCTACCCTCCGGAGCTGCAACTTCGGTTCTGCGGAA
TGGGCTGGCCGCTGGCACCGGCCAGGGTGACTTCGGCCCCAACAGTGACGGATCCTTCCACGCCTCGTCGTCCT
AACAGTCAAAAGTGGCGATGAGCACCCTACTGCTGCATTGTGCAGCACGCGGGGCTGGCGCAGCCCCCTCAGGGT
GGAGCTGGAATCTCCAGCCAAGTCCTCCGTGCTCGTGGTGGGAATCGTCATCGGTGTCTTGCTACTCACGGCAGC
GGCTGTAGGAGGAGCTCTGTTGTGGAGAAGGATGAGGAGTGGGCTGCCAGCCCCCTGGATCTCCCTTCGTGGAGA
CGACACCGGGGTCTCCTGCCCACCCAGGGGAGGCCAGGATGCTGATTTGAAGGATGTAAATGTGATTCCAGC
CACCGCCTGACCATCCGECATTCCGACTGCTAAAAGCGAATGTAGTCAGGCCCCCTTCATGCTGTGAGACCTCCT
GGAACACTGGCATCTCTGAGCCTCCAGAAGGGGTTCTGGGCCTAGTTGTCCTCCCTCTGGAGCCCCGTCTGTGG
TCTGCCTCAGTTTCCCTCCTAATACATATGGCTGTTTTCCACCTCGATAATATAACACGAGTTTGGGGCC

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FIGURE 5549

TTTCTTTTTTTCAGGCGGCCGGAAGATGGCGGACATTGAGCTGAGCGTGCCTACCAAAAGCAGCCGACCATCT
TTCAAAACAAGAAGAGGGTCCTGCTGGGAGAACTGGCAAGGAGAAGCTCCCGCGGTACTACAAGAACATCGGTC
TGGGCTTCAAGACACCCAAGGAGGCTATTGAGGGCACCTACATTGACAAGAAATGCCCCCTTCACTGGTAATGTGT
CCATTGAGGGCGGATCCTCTCTGGCGTGGTGACCAAGATGAAGATGCAGAGGACCATTGTCATCCGCCGAGACT
ATCTGCACTACATCCGCAAGTACAACCGCTTCGAGAAGCGCCACAAGAACATGTCTGTACACCTGTCCCCCTGCT
TCAGGGACGTCCAGATCGGTGACATCGTCACAGTGGGCGAGTGCCGGCCTCTGAGCAAGACAGTGCCTTCAACG
TGCTCAAGGTCACCAAGGCTGCCGGCACCAAGAAGCAGTTCCAGAAGTTCTGAGGCTGGACATCGGCCCCGCTCCC
CACAATGAAATAAAGTTATTTTCTCATTCCCAGGCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5550

CTTTTCCAAGCGGCTGCCGAAGATGCGCGGAGGTGCAGGTCCTGGTGCTTGATGGTCGAGGCCATCTCCTGGGCCG
CCTGGCGGCCATCGTGGCTAAACAGGTACTGCTGGGCCGGAAGGTGGTGGTCGTACGCTGTGAAGGCATCAACAT
TTCTGGCAATTTCTACAGAAACAAGTTGAAGTACCTGGCTTTCCTCCGCAAGCGGATGAACACCAACCCCTTCCCG
AGGCCCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCTGGCGGACCGTGCGAGGTATGCTGCCCCACAAAACCAA
GCGAGGCCAGGCCGCTCTGGACCGTCTCAAGGTGTTTGACGGCATCCCACCGCCCTACGACAAGAAAAAGCGGAT
GGTGGTTCTGTGCTGCCCTCAAGGTCGTGCGTCTGAAGCCTACAAGAAAGTTTGCCTATCTGGGGCGCCTGGCTCA
CGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTA
CCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAGAAGAACGTGGAGAAGAAAATTGACAAATACAC
AGAGGTCCTCAAGACCCACGGACTCCTGGTCTGAGSCCAATAAAAGACTGTTAATTCCTCATGCGTTGCCTGCCCT
TCCTCCATTGTTGCCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGTGCCACAGGCAGCCCTGGGACA
TAGGAAGCTGGGAGCAAGGAAAGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAATTGTGC
AGGTGTCATTTATCTATGACCAATAGGAAGAGCAACCAGTTACTATGAGTGAAAGGGAGCCAGAAGACTGATTGG
AGGGCCCTATCTTGTGAGTGGGGCATCTGTTGGACTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGC
AAGCACTTGGGGACAGCATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGC
ACAACCAAGGGGTTACAGGCATCGCCCATGCTCCTCACCTGTATTTGTAATCAGAAATAAATTGCTTTTAAAGA
AAAAAAAAAAAAAAAA

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FIGURE 5551

MAEVQVLVLDGRGHLGRLAAIVAKQVLLGRKVVVRCEGINISGNFYRNKLKYLAF LRKRMNTNPSRGPYHFRA
PSRIFWRTVVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPALKVVRLKPTRKFAYLGRLAHEVGWKYQ
AVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV

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FIGURE 5552

CGCAGTCTTCGCGGAAAGCGTTTCGGGGTAGGCGATGGCTGCGACGCGTGACAGGGCCCCGCGCCCGCGAGATCTTC
ACCTCGCTGGAGTACGGACCGGTGCCGGAGAGCCACGCATGCGCACTGGCCTGGCTGGACACCCAGGACCGGTGC
TTGGGCCACTATGTGAATGGGAAGTGGTTAAAGCCTGAACACAGAAATTCAGTGCCCTTGCCAGGATCCCATCACA
GGCTGGCCGAGGTGATCCAGAAGCACCAGCGGCTGCTGTGGACCCTGGAATCCCTGGTGACTGGGCGGGCTGTTC
GAGAGGTTTCGAGACGGGGACGTCCAGCTGGCCCAGCAGCTGCTCCACTACCATGCAATCCAGGCATCCACCCAGG
AGGAGGCACTGGCAGGCTGGGAGCCCATGGGAGTAATTGGCCTCATCTGCCACCCACATTCTCCTTCCCTTGAGA
TGATGTGGAGGATTTGCCCTGCCCTGGCTGTGGGCTGCACCGTGGTGGCCCTCGTGCCCCCGGCTCCCCGGCGC
CCCTCCTCCTGGCCCAGCTGGCGGGGAGCTGGGCCCTTCCC GGGAATCCTGAATGTCTCAGTGGCCCTGCGT
CCCTGGTGCCCATCCTGGCCTCCCAGCCTGGAATCCGGAAGGTGGCCTTCTGCGGAGCCCCGGAGGAAGGGCGTG
CCCTTCGACGGAGCCTGGCGGGAGAGTGTGCGGAGCTGGGCCTGGCGCTGGGGACGGAGTCGCTGCTGCTGCTGA
CGGACACGGCGGACGTAGACTCGGCCGTGGAGGGTGTCTGTGGACGCCGCTGGTCCGACCGCGGCCCCGGGTGGCC
TCAGGCTCCTCATCCAGGAGTCTGTGTGGGATGAAGCCATGAGACGGCTGCAGGAGCGGATGGGGCGGCTTCGGA
GTGGCCGAGGGCTGGATGGGGCCGTGGACATGGGGGCCGGGGGGCTGCCGCATGTGACCTGGTCCAGCGCTTTG
TGCGTGAGGCCCAGAGCCAGGGTGCACAGGTGTTCCAGGCTGGTGATGTGCCCTTCGGAACGCCCATTTCTATCCCC
CAACCTTGGTCTCCAACCTGCCCCCAGCCTCCCCATGTGCCCAGGTGGAGGTGCCGTGGCCTGTGGTGTGGCCT
CCCCCTTCCGCACAGCCAAGGAGGCACTGTTGGTGGCCAAACGGGACGCCCCGCGGGGGCAGCGCCAGTGTGTGGA
GCGAGAGGCTGGGGCAGGCGCTGGAGCTGGGCTATGGGCTCCAGGTGGGCACTGTCTGGATCAACGCCACGGCC
TCAGAGACCCCTTCGGTGCCACAGGCGGCTGCAAGGAGAGTGGGTGTTCTGGCACGGGGGCCAGACGGGCTGT
ATGAGTATCTGCGGCCCTCAGGAGCCCCCTGCCGGCTGTCTGCTCTCCAAGAACCTGAACTATGACACCTTG
GCCTCGCTGTTCCCTCAACCTGCCGGCTGGGCCTGAAATAGGGCCAGCCAGCACCCCCCTATGGGCTCTTCG
TTGGGGGCGGTTTCCAGGCTCCTGGGGCCCGAAGCTCCAGGCCATCCGGGATTCGTCTGGCAACCTCCATGGCT
ACGTGGCTGAGGCTGGAGCCAAGGACATCCGAGTGTCTGTGAGGCGGCTCACCAGGCTTCCCTGGCTGGGCGG
GCCATCCCCAGGAGCCCGGGCAGCCCTGCTGTGGGCCCTGGCGGCTGCACTGGAGCGCCGGAAGTCTACCCTGG
CCTCGAGGCTGGAGAGGCGAGGCGGAGCTCAAGGCTGCGGAGGCGGAGGTGGAGCTGAGCGCAAGACGACTTC
GGGCGTGGGGGGCCCGGGTGACAGGCCAAGGCCACCCCTGCAGGTAGCCGGGCTGAGAGGCCCTGTGCTGCGCC
TGCGGGAGCCGCTGGGTGTGCTGGCTGTGGTGTGTCCGGACGAGTGGCCCTGCTTGCCTTCGTGTCCCTGCTGG
CTCCCCGCCCTGGCCTACGGCAACACTGTGGTCAATGGTGCCAGTGCGGCTGTCTCTGCTGGCCCTGGAGGTCT
GCCAGGACATGGCCACCGTGTTCAGCAGGCTGGCCAACGTGGTGACAGGAGACCGGGACCATCTGACCCGCT
GCCTGGCCTTGACCAAGACGTCCAGGCCATGTGGTATTTCCGATCAGCCAGGGTTCCCAGTTTGTGAGTGGG
CCTCGGCAGGAAACCTCAAACCGGTGTGGGCGAGCAGGGGCTGCCCGCGGCTGGGACCAGGAGGCCGAGGGGG
CAGGCCCAGAGCTGGGGCTGCGAGTGGCGCGGACCAAGGCCCTGTGGCTGCCTATGGGGGACTAGATGCTGAGCG
CCACCTACTGCATTTTGGACACCTCACACCAAGGGGAGATGCACCCACAGACACCTGGGACTTTCCCTTCTGG
TTCCTGTGTCTCCCAATAAACTCTCTGACCAACCCTAGCTGTGCTTCTGCGAGAAAGAAAGGGTGTAGCAACTTCT
GGCAGATATGAGGCTTTTTTCTTTTTTTTTTTTTTTTTTGTAGACAACGTCTGGCTCTGTACCCAGGCTGGAGCG
CAGTGGCACAATCTCGGCCACTGCAGCCTCGACCTCTGGGGCTCAAGGGATCCTCATGCCTCAGCCTCATATGT
AGCTGGGGCCACAGACATGCACCACACACCTGGCTCGAGGCCATTTAGTTCTGAGGTTGAGCAGCTCAGGAGC
CGGCTCCAGCACGGTGTGTGTTGTGAAACAGAGAAAGGGGACCCCCGAGGACCCAGACAGGGCCTTAGGACT
CTCATATCTTCTGTCTTCTCCATCTGGTGGCTCTTGCTCTCTGGTTTTCTCTACCTTTTCATGGCCCCAGAATC
CATATGCAGTAAAGGAACTCTCTGGAATAAAATTAAAGTCCTCCT

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FIGURE 5553

MGVIGLILPPTFSFLEMMWRICPALAVGCTVVALVPPASPAPLLLAQLAGELGPFPGILNVLSGPASLVPILASQ
PGIRKVAFCGAPEEGRALRRSLAGECAELGLALGTESLLLLTDTADVDSAVEGVVDAAWSDRGPGLRLLIQESV
WDEAMRRLQERMGRRLRSGRGLDGAVDMGARGAAACDLVQRVREASQGAQVFQAGDVPSEPFYPPTLVSNLPP
ASPCAQVEVPWPVVVASPFRTAKEALLVANGTPRGGSASVWSERLGQALELGYGLQVGTWVINAHGLRDESVPTG
GCKESGCSWHGGPDGLYEYLRPSGTPARLSCLSKNLNYDTFGLAVPSTLPAGPEIGPSPAPPYGLFVGGRFQAPG
ARSSRPIRDSSGNLHGYVAEGGAKDIRGAVEAAHQAFPGWAGQSPGARAALLWALAAALERRKSTLASRLERQGA
ELKAAEALEVELSARRLRAWGARVQAQGHTLQVAGLRGPVLRRLREPLGVLAVVCPDEWPLLAFFVSLAPALAYGNT
VVMVPSAACPLLALEVCQDMATVFPAGLANVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPV
WASRGCPRAWQEAEGAGPELGLRVARTKALWLPMGD

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FIGURE 5554

ACAGTTCGGCACGTAGGACGGAGGGTAGTGCGTCTAGAGACACATATTCCCCACGGATTTGACGATGGTGTTCGG
TCTTGAATGGAAATGTAGTCTTAGGCCAGTCTTAGGTTTTTGAACAGGATAGTAGGTATCCGGAGTCGATTGAGG
GCCAGAGCAGGCACTGGGGTTCGGATCCTGGGCAAAGTTTCCACGTTGAGGGTCTCGAGGACGCCTAGATCTCT
TTCCCAGGGCCATGGCGAACCCGAAGCTGCTGGGAATGGGGCTAAGCGAGGCGGAGGCGATCGGTGCTGATTTCGG
CGCGATTTGAGGAGCTGCTGCTGCAGGCCTCGAAGGAGCTCCAGCAAGCCCAGACAACCAGACCAGAATCGACAC
AAATCCAGCCTCAGCCTGGTTTCTGCATAAAGACCAACTCCTCGGAAGGGAAGGTTTTTCATCAACATCTGCCACT
CCCCCTCTATCCCTCCTCCCGCCGACGTGACCGAGGAGGAGCTGCTTCAGATGCTAGAGGAGGACCAAGCTGGGT
TTCGCATCCCCATGAGTCTGGGAGAGCCTCATGCAGAACTGGATGCAAAAGGCCAGGGATGTACCGCCTACGACG
TAGCTGTCAACAGCGACTTCTACCGGAGGATGCAGAACAGCGATTTCTTGCGGGAGCTCGTGATCACCATCGCCA
GGGAGGGCCTTGAGGACAAATACAACCTGCAGCTGAATCCGGAATGGCGCATGATGAAGAACCGGCCATTTCATGG
GCTCCATCTCGCAGCAGAACATCCGCTCGGAGCAGCGTCCTCGGATCCAGGAGCTGGGGGACCTGTACACGCCCG
CCCCCGGGAGAGCTGAGTCAGGGCCTGAAAAGCCTCACCTGAACCTGTGGCTGGAAGCCCCCGACCTCCTCTTGG
CCGAAGTTGACCTCCCCAACTGGATGGAGCCCTGGGGCTGTCGCTGGAGATCGGGGAGAACCGCCTGGTGATGG
GGGGCCCCCAGCAGCTGTATCATCTAGACGCTTATATCCCGCTGCAGATCAACTCTCATGAGAGCAAGGCAGCCT
TCCACCGGAAGAGAAAGCAATTAATGGTGGCCATGCCGCTTCTGCCGGTGCCTTCTTGATCAGGGTGTCTCCTTG
TGCTTCTGAGATGTGGAGAAGAGGCTGCTGGCTTCCCTAAAAGTTGAAATAAAAGATTTTTCCTTTAAAAAAA
AAAAAAA

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FIGURE 5555

MANPKLLGMGLSEAEAI GADSARFEELLLQASKELQQAQTTRPESTQIQPQPGFCIKTNSSEGKVFINICHSPSI
PPPADVTEEEELLQMLEEDQAGFRIPMSLGEPHAELDAKGQGCTAYDVAVN SDFYRRMQNSDFLRELVITIAREGL
EDKYNLQLNPEWRMMKNRPFMGSI SQQNIRSEQRPRIQELGDLYTPAPGRAESGPEKPHLNLWLEAPDLLLA EVD
LPKLDGALGLSLEIGENRLVMGGPQQLYHLDAYIPLQINSHESKA AFHRKRKQLMVAMPLLPVPS

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FIGURE 5557

MGEPRAGAALDDGSGWTGSEEGSEEGTGGSEAGAGDGGPDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGK
MYGRNELIARYIKLRTGKTRTRKQVSSHQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKL
GPTGPPQASELFQFWSGSGPPWNVPDVKPFSTPFTLSLTPSTDLPGYEPPQALSPLPPPTPSPPAWQARGLT
ARLQLVEFSAFVEPPDAVDSYQRHLFVHISQHCPSPGAPPLESVDRVRIYDKFPEKKGGLRELYDRGPPHAFFLV
KFWADLNWGPGSGEEAGAGGSISSGGFYGVSSQYESLEHMTLTCSSKVCSTGKQVVEKVETERAQLEDGRFVYRL
RSPMCEYLVNFIHLKRLRQLPERYMMNSVLENFTILQVVTNRDTQELLCTAYVFEVSTSERGAQHIIYRLVRD

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FIGURE 5558

GTTGGTGAGCATCATGGCAACCGTTACAGCCACAACCAAAGTCCCGGAGATCCGTGATGTAACAAGGATTGAGCG
AATCGGTGCCCCACTCCCACATCCGGGGACTGGGGCTGGACGATGCCTTGGAGCCTCGGCAGGCTTCGCAAGGCAT
GGTGGGTGAGCTGGCGGCACGGCGGGCGGCTGGCGTGGTGCTGGAGATGATCCGGGAAGGGAAGATTGCCGGTTCG
GGCAGTCCTTATTGCTGGCCAGCCGGGCACGGGGGAAGACGGCCATCGCCATGGGCATGGCGCAGGCCCTGGGCC
TGACACGCCATTACAGCCATCGCCGGCAGTGAAATCTTCTCCCTGGAGATGAGCAAGACCGAGGCGCTGACGCA
GGCCTTCCGGCGGTCCATCGGCGTTTCGCATCAAGGAGGAGACGGAGATCATCGAAGGGGAGGTGGTGGAGATCCA
GATTGATCGACCAGCAACAGGGACGGGCTCCAAGGTGGGCAAACCTGACCCTCAAGACCACAGAGATGGAGACCAT
CTACGACCTGGGCACCAAGATGATTGAGTCCCTGACCAAGGACAAGGTCCAGGCCGGGGACGTGATCACCATCGA
CAAGGCGACGGGCAAGATCTCCAAGCTGGGCGCTCCTTCACACGCGCCCGCGACTACGACGCTATGGGCTCCCA
GACCAAGTTCGTGCAGTGCCAGATGGGGAGCTCCAGAAACGCAAGGAGGTGGTGCACACCGTGTCCCTGCACGA
GATCGACGTCATCAACTCTCGCACCCAGGGCTTCCTGGCGCTCTTCTCAGGTGACACAGGGGAGATCAAGTCAGA
AGTCCGTGAGCAGATCAATGCCAAGGTGGCTGAGTGGCGCGAGGAGGGCAAGGCGGAGATCATCCCTGGAGTGCT
GTTTCATCGACGAGGTCCACATGCTGGACATCGAGAGCTTCTCCTTCTCAACCGGGCCCTGGAGAGTGACATGGC
GCCTGTCCTGATCATGGCCACCAACCGTGGCATCACGCGAATCCGGGGCACCAGCTACCAGAGCCCTCACGGCAT
CCCCATAGACCTGCTGGACCGGCTGCTTATCGTCTCCACCACCCCTACAGCGAGAAAGACACGAAGCAGATCCT
CCGCATCCGGTGCGAGGAAGAAGATGTGGAGATGAGTGAGGACGCCTACACGGTGCTGACCCGCATCGGGCTGGA
GACGTCACTGCGCTACGCCATCCAGCTCATCACAGCTGCCAGCTTGGTGTGCCGGAACGCAAGGGTACAGAAGT
GCAGGTGGATGACATCAAGCGGGTCTACTACTCTTCTGGACGAGTCCCGCTCCACGCAGTACATGAAGGAGTA
CCAGGACGCCTTCTTCAACGAACCTCAAAGGCGAGACCATGGACACCTCCTGAGTTGGATGTATCCCCCGAC
CCCACCTGTTTTCCACCAGAGTTCTGACACTGTGACTCTGTATAAAATGGTTGGGAAGCTGC

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FIGURE 5559

MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLI
AGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRP
ATGTGSKVGKLTTLKTTEMETIYDLGTMIESLTKDKVQAGDVITIDKATGKISKLGRSFTRARDYDAMGSQTKFV
QCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDE
VHMLDIESFSFLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRC
EEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQYMKEYQDAF
LFNELKGETMDTS

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FIGURE 5560

CGCTTCGGGGCAGGGGTGCGGTCTTGCAATAGGAAGCCGAGCGTCTTGCAAGCTTCCCGTCGGGCACCAGCTACT
CGGCCCCGCACCTTACCTGGTGCATTCCCTAGACACCTCCGGGGTCCCTACCTGGAGATCCCCGGAGCCCCCTT
CCTGCGCCAGCCATGCTTTTAAACCGCACTTTGTCCATGTCTCACTGCCAGGACTGGAGGACTGGGAGGATGAA
TTCGACCTGGAGAACGCAGTGCTCTTGAAGTGGCCTGGGAGGTGGCTAACAAGGTGGGTGGCATCTACACGGTG
CTGCAGACGAAGGCGAAGGTGACAGGGGACGAATGGGGCGACAACCTACTTCTGGTGGGGCCGTACACGGAGCAG
GGCGTGAGGACCCAGGTGGAAGTGTCTGGAGGCCCCACCCCGGCCCTGAAGAGGACACTGGATTCCATGAACAGC
AAGGGCTGCAAGGTGTATTTGCGGCGCTGGCTGATCGAGGGAGGCCCTCTGGTGGTGTCTCTGGACGTGGGTGCC
TCAGCTTGGGCCCTGGAGCGCTGGAAGGGAGAGCTCTGGGATACCTGCAACATCGGAGTGCCGTGGTACGACCGC
GAGGCCAACGACGCTGTCTCTTTGGCTTTCTGACCACCTGGTTTCTGGGTGAGTTCTGGCACAGAGTGAGGAG
AAGCCACATGTGGTTGTCTACTTCCATGAGTGGTTGGCAGGCGTTGGACTCTGCCTGTGTCTGTGCCGGCGACTG
CCTGTAGCAACCATCTTCAACCCCATGCCACGCTGCTGGGGCGCTACCTGTGTGCCGGTGCCGTGGACTTCTAC
AACAACCTGGAGAACTTCAACGTGGACAAGGAAGCAGGGGAGAGGCAGATCTACCACCGATACTGCATGGAAAGG
GCGGCAGCCCACTGCGCTCACGTCTTCACTACTGTGTCCCAGATCACCGCCATCGAGGCACAGCACTTGTCAAG
AGGAAACCAGATATTGTGACCCCCAATGGGCTGAATGTGAAGAAGTTTCTGCCATGCATGAGTTCCAGAACCTC
CATGCTCAGAGCAAGGCTCGAATCCAGGAGTTTGTGCGGGGCCATTTTTATGGGCATCTGGACTTCAACTTGGAC
AAGACCTTATACTTCTTTATCGCCGGCCGCTATGAGTTCTCCAACAAGGGTGTGACGTCTTCTGGAGGCATTG
GCTCGGCTCAACTATCTGCTCAGAGTGAACGGCAGCGAGCAGACAGTGGTTGCCTTCTTCATCATGCCAGCGCGG
ACCAACAATTTCAACGTGGAACCCCTCAAAGGCCAAGCTGTGCGCAAACAGCTTTGGGACACGGCCAAACAGGTG
AAGGAAAAGTTCGGGAGGAAGCTTTATGAATCCTTACTGGTTGGGAGCCTTCCCGACATGAACAAGATGCTGGAT
AAGGAAGACTTCACTATGATGAAGAGAGCCATCTTTGCAACGCAGCGGCAGTCTTTCCCCCTGTGTGACCCAC
AATATGCTGGATGACTCCTCAGACCCCATCCTGACCACCATCCGCCAATCGGCCTCTCAATAGCAGTGCCGAC
AGGGTGAAGGTGATTTTCCACCCGGAGTTCTCTCCTCCACAAGCCCCCTGCTCCCTGTGGACTATGAGGAGTTT
GTCCGTGGCTGTACCTTGGAGTCTTCCCCTCTACTATGAGCCTTGGGGCTACACACCGGCTGAGTGCACGGTT
ATGGGAATCCCCAGTATCTCCACCAATCTCTCCGGCTTCCGCTGCTTCATGGAGGAACACATCGCAGACCCCTCA
GCTTACGGTATCTACATTCTTGACCGGCGGTTCCGCAGCCTGGATGATTCTGCTCGCAGCTCACTCCTTCTCTC
TACAGTTTCTGTGACGAGAGCCGGCGGCAGGTATCATCCAGCGGAACCGCACGGAGCGCTCTCCGACCTTCTG
GAGCAATACCTAGGCGGTACTATATGTCTGCGCGCCACATGGCGCTGTCCAAGGCCTTTCAGAGCACTTC
ACCTACGAGCCCAACGAGGCGGATGCAGGCCAGGGGTACCGCTACCCACGGCCAGCTCGGTGCCACCGTCGCC
CTCGCTGTACGACACTCCAGCCCGCACCGAGTGAAGGACGAGGATCCCCGGAACGGGCCGCTGGAGGAAGA
CGGCGAGCGCTACGATGAGGACGAGGAGGCCGCCAAGGACGCGGCAACATCCGTGCACAGAGTGGCCGCGCCG
AGCGTCTGCACTCCTCCACCAGCGGCAGCAAGCGAACTCTGTGGACACGGCCACCTCCAGCTCACTCAGCAC
CCCAGCGAGCCCCCTCAGCCCCACCAGCTCCCTGGGCGAGGAGCGTAACTAAGTCCGCCCCACCACACTCCCCGC
CTGTCTGCTCTCTGCTCCAGAGAGAGGATGCAGAGGGGTGCTGCTCCTAAACCCCGCTCCAGATCTGCACCTG
GGTGTGGCCCCGAGTGCCCCACCCAGTCCGCCAAACACTCCACCCCTCCAGCTCCAGTTTCCAAGTTCTCTGC
ACTCCAGAATCCACAAAGCCGTGCCTTTCTCTGGCTCCAGAATATGCATAATCAGCGCCCTGGAGTCCCTGGGC
CTGGACCGCTTCCAGAGGCCAGGAATCTGCCATTACTCTGCGGTGGTGCCAGAGGTTTTAGGAAACCTGGCATG
GTGCTTTAGGTCTGGGGCTTTTAGAGCCCCCGTGTGGCTTACAAATTCTACAGCATAACAGAGCAGGCCACGCT
CAGGCCCCGCATGCGGGCCACCAAGTTCTGGAACCCAGTGGTGTCCCTGCGAATGGGGCGATCAAGTCCAGAGC
CGGGGCACTTTAGAGTTTGAAGGTAAGTGAAGCAGATGGTCTCCATTTCAACTCCAGAAGTGGGGCTCTGGG
AGGGATGTTCTAGCCCTCCCTGGCATGTACAGAGCCAGGCTCTGCCTGGAGGATCCCTCCATCCGGCTCCTGTCT
CCCCTACACTTTGGCCAAGCAAGAGGTGGTAGAACCACTTGGCTGCTCATTCTCTGGAGGACACACAGTCTCA
GTCCAGATGCCTTCTGTCTTTCTGGCCCTTTCTGGACCAGATCCTACTCTTCTTTCTAAATCTGAGATCTCCC
TCCAGGGAATCCGCTGCAGAGGACAGAGCTGGCTGTCTTCCCCCACCCTAACCTGGCTTATTCCCAACTGCTC
TGCCCACTGTGAAACCACTAGGTTCTAGGTCTGGCTTCTAGATCTGGAACCTTACCACGTTACTGCATACTGAT
CCCTTTCCCATGATCCAGAAGTGAAGTCACTGGGTTCTAGAACCCCCACATTTACCTCGAGGCTCTTCCATCCCC
AAACTGTGCCCTGCCTTCACTTTGGTGAAGGGAGGGCCCCCTCATGTGTGCTGTGCTGTGTCTGCACCGCTTGG
TTTGAGTTGAGAGGGGAGGGCAGGAGGGGTGTGATTGGAGTGTGTCCGGAGATGAGATGAAAAAATACATCTA
TATTTAAG

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FIGURE 5561

MPLNRTLMSSSLPGLEDWEDEFDLENVLF EVAWEVANKVGGIYTVLQTKAKVTGDEWGDNYFLVGPYTEQGVRT
QVELLEAPTPALKRTLDSMNSKGCKVYFGRWLI EGGPLVVLDDVGASAWALERWKELWDTCNIGVPWYDREAND
AVLFGFLT TWFLGEFLAQSEEKPHVVAHFHEWLAGVGLCLCRARRLPVATIFTTHATLLGRYLCAGAVDFYNNLE
NFNVDKEAGERQIYHRYCMERAAAHCAHVFTTVSQITAIEAQHLLKRKPDIVTPNGLNVKKFSAMHEFQNLHAQS
KARIQEFVRGHFYGHLDNFNDKTLTYFFIAGRYEFSNKGADVLEALARLNYLLRVNGSEQTVVAFFIMPARTNNF
NVETLKGQAVRKQLWDTANTVKEKFGRKLYESLLVGSLPDMNKMLDKEDFTMMKRAIFATQRQSFPVCTHNMLD
DSSDPILTTIRRI GLFNSSADRVKVIHFHPEFLSSTSPLLPVDYEEFVRGCHLGVPFSPYYEPWGYTPAECTVMGIP
SISTNLSGFGCFMEEHIADPSAYGIYILDRRFRSLDDSCSQLTSFLYSFCQQSRRQRI IQNRNTERLSDLLDWKY
LGRYYMSARHMALSKAFPEHFTYEPNEADAGPGVPLPTASLGATVALAVTTLQPAPE

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FIGURE 5562

GTCCCGCGGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACTCTCTTCCAGCCTCCGACC
GCCCTCCGATTTCTCTCCGCTTGCAACCTCCGGGACCACTCTTCTCGGCCATCTCCTGCTTCTGGGACCTGCCAG
CACCGTTTTTGIGGTTAGCTCCTTCTTGCCAACCAACCATGAGCTCCAGATTCTGTCAGAATTATTCCACCGACG
TGGAGGCAGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATT
TCGACCGCGATGATGTGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGGCCGAGGAGAAGCGCGAGGGCT
ACGAGCGTCTCCTGAAGATGCAAAACAGCGTGCGGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAG
ATGAGTGGGGTAAAAACCCAGACGCCATGAAAGCTGCCATGGCCCTGGAGAAAAAGCTGAACCAGGCCCTTTTGG
ATCTTCATGCCCTGGGTTCTGCCCCACGGACCCCCATCTCTGTGACTTCTTGGAGACTCACTTCCTAGATGAGG
AAGTGAAGCTTATCAAGAAGATGGGTGACCACCTGACCAACCTCCACAGGCTGGGTGGCCCCGAGGCTGGGCTGG
GCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGACTTAAGAGCCTTCTGAGCCCAGCGACTTCTGAAGGGCCC
CTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTAACCTATCCTAACAAAG
CCTTGACCAAATGGAAATAAAGCTTTTTGATGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5563

MSSQIRQNYSTDVEAAVNSLVNLYLQASYTYLSLGFYFDRDDVALEGVSHFFRELAEKREGYERLLKMQNQRRG
RALFQDIKKPAEDEWGKTPDAMKAAMALEKKLNQALLDLHALGSARTDPHLCDFLETHFLDEEVKLIKMGDHLT
NLHRLGGPEAGLGEYLFERLTLKHD

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FIGURE 5564

GCTGCGGCCGCCGCGCGGACCCGGCGAGAGGCGGCGGCGGGAGCGGCGGGTGATGGACGGGTCCGGGGAGCAGCC
CAGAGGCGGGGGGGCCACCAGCTCTGAGCAGATCATGAAGACAGGGGGCCCTTTTGCTTCAGGGTTTCATCCAGGA
TCGAGCAGGGCGAATGGGGGGGGAGGCACCCGAGCTGGCCCTGGACCCGGTGCCTCAGGATGCGTCCACCAAGAA
GCTGAGCGAGTGCTCAAGCGCATCGGGGACGAAGTGGACAGTAACATGGAGCTGCAGAGGATGATTGCCGCCGT
GGACACAGACTCCCCCGAGAGGTCTTTTTCCGAGTGGCAGCTGACATGTTTTCTGACGGCAACTTCAACTGGGG
CCGGGTTGTCGCCCTTTTCTACTTTGCCAGCAAAGTGGTGCTCAAGGCCCTGTGCACCAAGGTGCCGGAAGTGT
CAGAACCATCATGGGCTGGACATTGGACTTCCTCCGGGAGCGGCTGTTGGGCTGGATCCAAGACCAGGGTGGTTG
GGTGAGACTCCTCAAGCCTCCTCACCCCCACCACCGCGCCCTCACCACCGCCCCTGCCCCACCGTCCCTGCCCC
CGCCACTCCTCTGGGACCCCTGGGCCTTCTGGAGCAGGTACAGTGGTGCCCTCTCCCCATCTTCAGATCATCAGA
TGTGGTCTATAATGCGTTTTCTTACGTGTCTTGATCAATCCCCGATTCTATCTACCCTGCTGACCTCCCAGTGACC
CCTGACCTCACTGTGACCTTGACTTGATTAGTGCCCTTCTGCCCTCCCTGGAGCCTCCACTGCCTCTGGAATTGCT
CAAGTTCATTGATGACCCTCTGACCCTAGCTCTTTCTTTTTTTTTTTTT

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FIGURE 5565

MDGSGEQPRGGGPTSSEQIMKTGALLLQGF IQDRAGRMGGEAPELALDPVPQDASTKKLSECLKRIGDELDNME
LQRMIAAVD TDSPREVFFRVAADMFS DGNFNWGRVVALFYFASKLVLKALCTKVPELIRTIMGWTLD FLRERLLG
WIQDQGGWVRL LKPPHPHHRALTTAPAPPSLPPATPLGPWAFWSRSQWCPLPIFRSSDVVYNAFSLRV

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[illegible]

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FIGURE 5567

MPPSGPRGTTTTLLPLLLLLLLLRAVLAVPLERGA PNKEETPATESPDTGLYYHRYLQEVIDVLETDGHFREKLQAA
NAEDIKSGKLSRELDVSHHVRTKLDELKRQEVSRRLMLLKAKMDAEQDPNVQVDHLNLLKQFEHLDPQNQHTFE
ARDLELLIQTATRDLAQYDAAHHEEFKRYEMLKEHERRRYLES LGEEQRKEAERKLEEQQRRHREHPKVNVP GSQ
AQLKEVWEELDGLDPNRFNPKTFFILHDINSDGVLDEQELEALFTKELEKVYDPKNEEDDMREMEERLRMRHV
MKNVDTNQDRLVTLEEF LASTQRKEFGDTGEGWETVEMHPAYTEEELRRFEEELAAREAE LNAKAQRLSQET EAL
GRSQGRLEAQKRELQQAVLHMEQRKQQQQQQQGHKAPAAHPEGQLKFHPDTDDVPVPAPAGDQKEVDTSEKKLLE
RLPEVEVPQHL

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FIGURE 5568

ATGGCCGCAGCCGCTCTGGGGCAGATCTGGGCACGAAAGCTTCTCTCTGTCCCTTGGCTTCTGTGTGGTCCCAGA
AGATATGCCTCCTCCAGTTTCAAGGCTGCAGACCTGCAGCTGGAAATGACACAGAAGCCTCATAAGAAGCCTGGC
CCCGGCGAGCCCCTGGTGTTTGGGAAGACATTTACCGACCACATGCTGATGGTGGAATGGAATGACAAGGGCTGG
GGCCAGCCCCGAATCCAGCCCTTCCAGAACCTCACGCTGCACCCAGCCTCCTCCAGCCTCCACTACTCCCTGCAG
CTGTTTGAGGGCATGAAGGCGTTCAAAGGCAAAGACCAGCAGGTGCGCCTCTTCCGCCCTTGGCTCAACATGGAC
CGGATGCTGCGCTCAGCCATGCGCCTGTGCCTGCCGAGTTTCGACAAGCTGGAGTTGCTGGAGTGCAATCCGCCGG
CTCATCGAAGTGGAACAAGGACTGGGTCCCCGATGCCGCCGGCACCAGCCTCTATGTGCGGCCTGTGCTCATTTGGG
AACGAGCCCTCGCTGGGTGTGAGCCAGCCCAGGCGCGCCTCCTGTTTCGTATTCTCTGCCAGTGGGTGCCTAC
TTCCCTGGAGGCTCCGTGACCCCGGTCTCCCTCCTGGCCGACCCAGCCTTCATCCGGGCCCTGGGTGGGCGGGGTC
GGCAACTACAAGTTAGGTGGGAATTATGGGCCCCACCGTGTTAGTGCAACAGGAGGCACTCAAGCGGGGCTGTGAA
CAGGTCTCTGGCTGTATGGGCCCCGACCACAGCTCACCGAGGTGGGAACCATGAACATCTTTGTCTACTGGACC
CACGAAGATGGGGTGCTGGAGCTGGTGACGCCCCCGCTGAATGGTGTTATCCTGCCTGGAGTGGTCAGACAGAGT
CTACTGGACATGGCTCAGACCTGGGGTGAGTTCCGGGTGGTGGAGCGCACGATCACCATGAAGCAGTTGCTGCGG
GCCTTGGAGGAGGGCCGCGTGCGGGAAGTCTTTGGCTCGGGCACCGCTTGCCAGGTCTGCCCAGTGCACCGAATC
CTGTACAAAGACAGGAACCTCCATATTCCACCATGGAAAATGGGCCTGAGCTGATCCTCCGCTTCCAGAAGGAG
CTGAAGGAGATCCAGTACGGAATCAGAGCCCACGAGTGGATGTTCCCGGTGTGAAGCTGCAGGCTGTGCTCCAGA
TCCACCGACCCGTAGCATCTCGTCACGCCAGCACTCGCCTCCCTACCAATGACTCACCTGAAGTGCAATACGAAA
TAAAAGGCCAGCGGGCGGCGTCTGGGTCTCTGGCGCCCCCATGTGGTTGCGACACTCCCAAAGCCGTAAGGGCCG
ACCCAGGCATCTTGGCCCCCAGCCCCTCGTCGCGGGTTACAGGTCCGCCATTACTCCTTGTCGTGCGGTCAAGGA
TACACCTTGGCCCCGATTCCGGATCTCTCCGTTCTCAGGCCAGACCCCTGGTGCTGCCGTTGATTTTTTTTTTCTC
TGTCCTTGCTGCAATTTTGAAATAAAATGCCAAAGAACAACAAAAA

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FIGURE 5569

MAAAALGQIWARKLLSVPWLLCGPRRYASSSFKAADLQLEMTQKPHKKPGGEPVFGKTF TDHMLMVEWNDKGW
GQPRIQPFQNLTLHPASSSLHYSLQLFEGMKAFKKGKDQQVRLFRPWLNMDRMLRSAMRLCLPSFDKLELLECIRR
LIEVDKDWVPDAAGTSLYVRPVLIGNEPSLGVSQPRRALLFVILCPVGAYFPGGSVIPVSLADPAFIRAWVGGV
GNYKLGGNYGPTVLVQQEALKRGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGVLELVIPPLNGVILPGVVRQS
LLDMAQTWGEFRVVERTITMKQLLRAL E EGRVREVFSGTACQVCPVHRILYKDRNLHIPTMENGPELILRFQKE
LKEIQYGIRAH E WMPV

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FIGURE 5570

TCTGCTCTGAGCCCCGCCCAGCCCAGAAACCCCACTAGCCTGGGGCCTGAGAACAGCCACGCCACTCCCTCCTG
AGAGCCCACCGCGCCACAGCTTGGAGGAAGAGCCTGCGGGGAAGTGGCTGCAGGACGCTCTCTTCTTGAGTGCAG
GTGCTGGCTCTGCTGTGACCATGCCCCTGACCTTTGCCCTCCTGCTCCTCCTGGGCCAGGCCACTGCGGACCCAT
GCTACGATCCACAGGGCCGCCCCAATTCTGCCTCCCGCCAGTGACACAGCTGGCTGCCGTGGCGGCTCCTGCC
CTCAGGCCTGTGCCCTGTCCCCAGGAAACACCTTGGCGCCAGGGAAACCTGCAATGGCAGCCTGACTTTGGCCC
TGGGTGGCCCCCTTCTCCTGACATCTGTGAGCTTGCCTTCTGTACCCCAGGACCCCCAGCCCTCATCCTGTCTG
CTGCCTGGGCCTCAGGGGTCCCTGGAGGCTGCTGTGGCACAGGCCCGCCTGGCCTGGGGCCTTAGGGGGCCCTG
AAAGGGTGACCTTCCACTCCACACCAGGTCCTAAGGCCACTGTGGCGGCCAGCCACCTCCGTGTGGAGTTTGGGG
GCCAGGCCGGGCTAGCGGCAGCTGGGCTGAGAGGCCGCTGCCAGTGTGATGGCCACGCTGCCCGCTGTGCCGCCC
GTGCCCGGCCCGCCCGCTGCCACTGCCGCCACCATAACCTAGGCCCGGGGTGCGAGAGCTGCCGCCCCGTCCCATC
GAGACTGGCCCTGGCGGCCTGCCACGCCCGGCACCCCCACCCCTTGCCCTACCCTGCTCCTGCAACCAGCACGCCC
GACGCTGCCGGTTCAACTCTGAGCTGTTTCACTGTGCGGGCGGCCGGAGTGGGGGTGTTTGTGAGCGGTGCCGCC
ACCACACAGCTGGCGGCCTGCCACTACTGCCAACCTGGGTTCTGGAGGGACCCCTAGCCAGCCTATCTTCAGCC
GCAGGGCCTGCAGAGCCTGCCAGTGCCACCCTATTGGGGCAACAGGAGGAACCTGCAACCAGACAGTGGGCAGT
GCACCTGCAAGTTAGGGGTACAGGCCTGACCTGCAACCGCTGTGGCCCTGGCTACCAGCAGAGCCGCTCCCCCA
GGATGCCCTGCCAGCAATTCCAGAGGCAACAACCACCCCTGCCACTACTCCTGGTGCTTATAGCTCTGACCCTC
AGTGTCAAACTACTGCAATATGTCGGACACCAGGGTACACATGAGCCTTCGGAGGTACTGCCAGCAGGACCATG
TTCTCCGCGCGCAGGTGCTAGCGTCCGAGGCGGCGGGCCCGGCATGGCAGCGGCTGGCCGTGCGCGTGCTGGCCG
TTTACAAGCAGCGGGCGCAGCCCGTGCGACGCGGCAGCAGGACGCTGGGTGCCCCGCGCCGACCTGACCTGCG
GCTGCCTGCGCCTGCAGCCAGGCACCGACTACCTGCTGCTGGGCAGCGCCGTGGGCGACCCCGACCCACGCGCC
TCATCCTCGACCGCCACGGCCTCGCGCTGCCATGGAGGCCGCGCTGGGCCCCGCCCCCTGAAGCGGCTGCAGCAGG
AGGAGCGCGCCGGAGGCTGCCGCGGCGTGCGGGCACCCACACCCAGTCCCAGGCCGGAGCACTAGACGTGAGATG
GGGCTGCCTCGAGCACCACAAAGTAATTTGGGAGCGACTAGGAGCTGAGCCTTCTACCTCGACGGTGCCTGCA
GAGAGCCAATCAGACGTGCGAGAGCCCCGACGACACTATGCTTGCGCCCACGCCGAGCAGGCGTGCGGAACCTTT
AGCAAAAGGCGCAAGCGGGACTTCTGGTCCCAACATTTCTCCTTTGGCCTGTGGCTTATTCGCCCGCAGTGAT
CTGTTTCCCCCAATAAAGTCTCAAATCTTTGGG

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FIGURE 5571

CTTTCCGGACCTGGCCGAGCAGGAGGCGCCATCATGGGAGTGGACATCCGCCATAACAAGGACCGAAAGGTTTCGG
CGCAAGGAGCCCAAGAGCCAGGATATCTACCTGAGGCTGTTGGTCAAGTTATACAGGTTTCTGGCCAGAAGAACC
AACTCCACATTCAACCAGGTTGTGTTGAAGAGGTTGTTTATGAGTCGCACCAACCGGCCGCCTCTGTCCCTTTCC
CGGATGATCCGGAAGATGAAGCTTCCTGGCCGGGAAAACAAGACGGCCGTGGTTGTGGGGACCATAACTGATGAT
GTGCGGGTTCAGGAGGTACCCAACTGAAGGTATGTGCACTGCGCGTGACCAGCCGGGCCCCGCAGCCGCATCCTC
AGGGCAGGGGGCAAGATCCTCACTTTTCGACCAGCTGGCCCTGGACTCCCCTAAGGGCTGTGGCACTGTCCTGCTC
TCCGGTCCTCGCAAGGGCCGAGAGGTGTACCGGCATTTTCGGCAAGGCCCCAGGAACCCCGCACAGCCACACCAAA
CCCTACGTCCGCTCCAAGGGCCGGAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAA
CCCTGGATCCTACTCTCTTATTAAAAAGATTTTTTGCTGACAAAAAAA

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FIGURE 5572

MGVDIRHNKDRKVRRKEPKSQDIYLRLLVKLYRFLARRTNSTFNQVVLKRLFMSRTNRPPLSLSRMIRKMKLPGR
ENKTAVVVGTTITDDVRVQEVPKLKVCALRVTSRARSRI LRAGGKILTFDQLALDSPKGC GTVLLSGPRKGRE VYR
HFGKAPGTPHSHTKPYVR SKGRKFERARGRRASRGYKN

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FIGURE 5573

CTGCAGGGCCAGGCCTGGCCACACTTGGGCTGCTTCTCCTATCCCTCGTACCAGCCAGCCCCAGGCCTTCTGGAA
CTCTCAGCTGCCTCATCCTGCCTGCTTTTCCCTTCAACACTGCTTGGAGCTGTGTTTTCCAGGGCCTGAGCAGGC
'ATCTCCTGGGGAGCATGCAGTTCACCGGCCTTTGCCAGCCCAGGCTGGGACCCCTCCAGGTGGTGGGGCAGGTGCT
TCCATAGCCCCCTCCTGGCTCCTTGGCTTCCCCTCCCTCCTCTCCCCACAGACCCCTACGTCCGCTCCAAGGGCCG
GAAGTTCGAGCGTGCCAGAGGCCGACGGGCCAGCCGAGGCTACAAAACTAACCCCTGGATCCTACTCTCTTATTA
AAAAGATTTTTGCTGAC

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FIGURE 5574

GGCACGAGGGTTTCGAAGATCGCGGCGCGCAAGGGTCGGCGTCGCACGTGTGAAACCGGGGAACCCATGGAAGCCG
AGTCCGGCGACACAAGTTCCGAGGGCCCCGGCCAGGTCTACCTGCCCCGGCCGGGGGCCGCCGTACGCGAAGGGG
AGGAGCTGGTTCATGGACGAGGAGGCCTATGTGCTCTACCACCGAGCGCAGACTGGCGCCCCCTGTCTCAGCTTTG
ACATAGTCCGGGATCACCTGGGAGACAACCGGACAGAGCTTCTCTTACACTTTACTTGTGTGCTGGGACCCAGG
CTGAGAGCGCCAGAGCAACAGACTGATGATGCTTCGGATGCACAATCTGCATGGGACAAAGCCCCCACCCTCAG
AGGGCAGTGATGAAGAAGAAGAGGAGGAAGATGAAGAGGATGAAGAAGAGCGGAAACCTCAGCTGGAGCTGGCCA
TGGTGCCCCACTATGGTGGCATCAACCGAGTTTCGGGTGTTCATGGCTGGGTGAAGAGCCTGTGGCTGGGGTGTGGT
CAGAGAAGGGCCAGGTGGAGGTGTTTGCGCTGCGGCGGCTTCTGCAGGTGGTGGAGGAGCCCCAGGCCCTGGCAG
CCTTCCTCCGGGATGAGCAGGCCCAAATGAAGCCCATCTTCTCCTTCGCTGGACACATGGGCGAGGGCTTTGCC
TTGACTGGTCCCCCGGGTGACCGGTGCGCTGCTGACCGGTGACTGTCAAAGAACATCCACCTCTGGACACCTA
CGGACGGCGGCTCCTGGCAGTGGACAGCGGCCATTCTGTGGGCCACACACGCTCTGTGGAGGACCTGCAGTGGT
CACCGACTGAGAACACGGTGTTCCTCCTGCTCAGCTGACGCCTCCATCCGCATCTGGGACATCCGGGCAGCCC
CCAGCAAGGCCTGCATGCTCACCACAGCCACCGCCCATGATGGGGACGTCAATGTCATCAGCTGGAGCCGCCGGG
AGCCCTTCCTGCTCAGTGGCGGGGATGATGGGGCCCTCAAGATCTGGGACCTTCGGCAGTTCAAGTCTGGTTCCC
CAGTGGCCACCTTCAAGCAGCACGTGGCCCCCGTGACCTCCGTGAGTGGCAGCCCCCAGGACAGCGGGGTCTTTG
CAGCCTCGGGTGCAGACCACAGATCACACAGTGGGACCTGGCAGTGGAGCGGGACCCCTGAGGCGGGCGACGTGG
AGGCCGACCCCGGACTGGCCGACCTCCCGCAGCAGCTGCTGTTCTGTCACCAGGGCGAGACCGAGCTGAAGGAGC
TGCACTGGCAGCCCGCAGTGGCCAGGGCTCCTGGTCAGCACGGCGCTGTCAGGCTTCACCATCTTCCGCACCATCA
GCGTCTGAGGCGTCCCACTGGCTCTGATCTTGCTTCCTGCTTGAAACTGAAGTCGAATTGGGCTCCCCCTGGAAG
GGGTTCATTTCAGGTCTGTGACTGAGACTGGCCGGCCTGTGGGCTGCCGTGATGGATTCTGTTTGACGTATTGTT
CTCTAGAAGGCCTGGCTCTGATCCAGTGACCCCTCTACCAAAGAACTCGGTTTAACCAGGGCTCTGTAAGACCA
CTCCACCCAGAGACTTGTGTGGCCTGGTGTGGCCTGTGTGTCGGATTCTTCCTGTCAGCTGTGACCCATTGTA
CCTGTGTCCCCAGAACCAGTTTTTTGTTTGTGTTTGTGTTGAGACGGAGTCTTGGTCTGTGCCCCAGGCTGGAGTGC
AGTAGCACGATCTTGGCTCACTGCAACCTCCGCCTCCTGGGTTAAAGTGATTCTCTCAGCTCAGTCTCCCAGGTA
GCTGGGATTACAGGCATGTGCCACCACACCCCGTTAATTTTTGTATTTTTAGTAGAGACGGGGTTTACCATGTT
GGCCAGGCTGGTCTCAAATTCCTGATCTCAAGTGATCTGTCCGCCCGGCCTCCAGAGTGTGGGTTGGGATTA
CAGGCGTGAGCCACCGCTCCGGCTCAGGACCCAGTTTTGGCTGCTGGTCCCAGCAGGGGACTCGGGGATATA
CAGTGGCTGCACCAAATTGGAGGTGTGGGTTCTCCAACACAATTTGCTTCTGCCCCTGTCTTCTGCCAGCTG
GGTTTGGCCAGGATTTCTCCGTGTGGGGGCTACATGCGACCCCTCTCCCCTCCTCCCTGACTTTAGAGGCTGGTGC
TGTGTGCGGAGGAAGGTCAGGGCTCCTGAGCAGCAATAAAGGACCAGGAAGAGGCCTGAGGTGTAACAAAAAAA
AAAAAAAAAAAA

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FIGURE 5575

MAARKGRRRTCETGEPMEAESGDTSSSEGPAQVYLPGRGPPLREGEELVMDEEAYVLYHRAQTGAPCLSFDIVRDH
LGDNRTLEPLTLYLCAGTQAESAQSNRLMMLRMHNLHGTPPPSEGSDEEEEEDEEDEERKPQLELAMVPHYG
GINRVRVSWLGEEPVAGVWSEKQQVEVFALRRLQVVEEPQALAAFLRDEQAQMKPIFSAGHMGEGFALDWSPR
VTGRLLTGDCQKNIHLWTPTDGGSWHVDQRPVVGHTRSVEDLQWSPTENTVFASCSADASIRIWDIRAAPSKACM
LTTATAHDGDVNVISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVTSVEWHPQDSGVFAASGAD
HQITQWDLAVERDPEAGDVEADPGLADLPQQLLFVHQGETELKELHWHWPQCPGLLVSTALSGETIFRTISV

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FIGURE 5576

CTAAAGGTCCCCTCCCCGGAGCGGAGCGCACCTAGGGTCCCTCTTCCGTCCCCCAGCCCAGCTACCCGTTCAGA
CCAGCAGCCTCGGGGGGCACCCCCGCCAGCCTGCCTCCCTCCCGCTCAGCCCTGCCAGGGTTCCCCAGCCATGA
ATCTCTTCCGATTCCTGGGAGACCTCTCCACCTCCTCGCCATCATCTTGCTACTGCTCAAAATCTGGAAGTCCC
GTCGTGCGCCGGAATTCAGGGAAGAGCCAGGTCTGTTTGCTGTGGTGTTCACTGCCCCGATATCTGGACCTCT
TCACCAACTACATCTCACTCTACAACACGTGTATGAAGGTGGTCTACATAGCCTGCTCCTTCACCACGGTCTGGT
TGATTTATAGCAAGTTCAAAGCTACTTACGATGGGAACCATGACACGTTTCAAGTGGAGTTCCTGGTCGTTCCTCA
CAGCCATTCTGGCGTTCCTGGTCAATCATGACTTCACCCCTCTGGAGATCCTCTGGACCTTCTCCATCTACCTGG
AGTCAGTGGCCATCTTGCCGCAGCTGTTTCATGGTGAGCAAGACCGGCGAGGCGGAGACCATCACCAGCCACTACT
TGTTTGCGCTAGGCGTTTACCGCACGCTCTATCTCTTCAACTGGATCTGGCGCTACCATTTCGAGGGCTTCTTCG
ACCTCATCGCCATTGTGGCAGGCCTGGTCCAGACAGTCTCTACTGCGATTTCTTCTACCTCTATATCACCAAAG
TCCTAAAGGGGAAGAAGTTGAGTTTGCCGGCATAGCCCCGGTCTCTCCATCTCTCTCCTCGGCAGCAGCGGGAG
GCAGAGGAAGGCGGCAGAAGATGAAGAGCTTTCCCATCCAGGGGTGACTTTTTTAAGAACCCACCTCTTGTGCTC
CCCATCCCGCCTCCTGCCGGGTTTCAGGGGGACAGTGGAGGATCCAGGTCTTGGGGAGCTCAGGACTTGGGCTGT
TTGTAGTTTTTTGCCTTTTAGACAAGAAAAAAAATCTTTCCACTCTTTAGTTTTTGATTCTGATGACTCGTTTT
TTCTTCTACTCTGTGGCCCCAAATTTTATAAAGTGA

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FIGURE 5577

MNLFRLFGLSHLLAIILLKKIWKSRSCAGISGKSQVLFAVVFTARYLDLFTNYISLYNTCMKVVIACSF¹TTV
WLIYSKF²KATYDGNHDTFRVEFLVVPTAILAFLVNHDFTPLEILWTF³SIYLESVAILPQLFMVSKTGEAETITSH
YLFALGVYRTLYLFNWIWRYHFEGFFDLIAIVAGLVQTVLYCDFFLYITKVLKGKKLSLPA

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FIGURE 5578

AAGAAGTGGCGAAGTTACTTTTGAGGGTATTTGAGTAGCGGCGGTGTGTCAGGGGGCTAAAGAGGAGGACGAAGAA
AAGCAGAGCAAGGGAACCCAGGGCAACAGGAGTAGTTCACTCCGCGAGAGGGCCGTCCACGAGACCCCCGCGCGCA
GCCATGAGCCCCGCCCCCGCTGTTGCTTGGAGAGGGGCGGGACCTGGAGAGAGGGCTGCTCCGTGACCCCCACCAT
GTCTCTCTCTACCACGAGTTCCCTGGATACCCCCCTGCCTGGAAATGGCCCCCTCAGCCTGGCGCCCCCTTCTTC
TTCACCCACTGTAAAGGAGGAGGGTCCGGAGCCGTGGCCCGGGGGTCCGGACCTGATGTCCAGGCACTGATGA
GGCCAGCTCAGCCTGCAGCACAGACTGGGTTCATCCAGATCCCGAAGAGGAACAGAGCGCAAGCGAAAGAAGGG
CCCAGCCCCGAAGATGCTGGGCCACGAGCTTTGCCGTGTCTGTGGGGACAAGGCCCTCCGGCTTCCACTACAACGT
GTCAGCTGCGAAGGCTGCAAGGGCTTCTTCCGGCGCAGTGTGGTCCGTGGTGGGGCCAGGCGCTATGCCTGCCG
GGGTGGCGGAACCTGCCAGATGGACGCTTTTCATGCGGCGCAAGTGCCAGCAGTGCCGGCTGCGCAAGTGCAAGGA
GGCAGGGATGAGGGAGCAGTGCGTCTTTCTGAAGAACAGATCCGGAAGAAGAAGATTTCGGAAACAGCAGCAGGA
GTCACAGTCACAGTCGCAGTCACCTGTGGGGCCGCAGGGCAGCAGCAGCTCAGCCTCTGGGCCTGGGGCTTCCCC
TGGTGGATCTGAGGCAGGCAGCCAGGGCTCCGGGAAGGCGAGGGTGTCCAGCTAACAGCGGCTCAAGAACTAAT
GATCCAGCAGTTGGTGGCGGCCCAACTGCAGTGCAACAAACGCTCCTTCTCCGACCAGCCCAAAGTCACGCCCTG
GCCCCTGGGCGCAGACCCCCAGTCCCGAGATGCCCGCCAGCAACGCTTTGCCCACTTCACGGAGCTGGCCATCAT
CTCAGTCCAGGAGATCGTGGACTTCGCTAAGCAAGTGCTTGGTTTCTTGCAGCTGGGCGGGAGGACAGATCGC
CCTCCTGAAGGCATCCACTATCGAGATCATGCTGCTAGAGACAGCCAGGCGCTACAACCACGAGACAGAGTGTAT
CACCTTCTTGAAGGACTTCACCTACAGCAAGGACGACTTCCACCGTGCAGGCCTGCAGGTGGAGTTCATCAACCC
CATCTTCGAGTTCTCGCGGGCCATGCGGGCGCTGGGCCTGGACGACGCTGAGTACGCCCTGCTCATCGCCATCAA
CATCTTCTCGGCCGACCGGCCCAACGTGCAGGAGCCGGGCCGCTGGAGGCGTTGCAGCAGCCCTACGTGGAGGC
GCTGCTGTCTTACACGCGCATCAAGAGGCCGCAGGACCAGCTGCGCTTCCCGCGCATGCTCATGAAGCTGGTGA
CCTGCGCACGCTGAGCTCTGTGCACTCGGAGCAGGTCTTCGCTTTCGGCTCCAGGACAAGAAGCTGCCGCCTCT
GCTGTGCGGAGATCTGGGACGTCCACGAGTGAGGGGCTGGCCACCCAGCCCCACAGCCTTGCTGACCACTTCCA
GCAGATAGACGCCGGCACCCCTTCTCTTCTAGGGTGAAGGGGCCCTGGGCCGAGCCTGTAGACCTATCGGCT
CTCATCCCTTGGGATAAGCCCCAGTCCAGGTCCAGGAGGCTCCCTCCCTGCCAGCGAGTCTTCCAGAAGGGGTG
AAAGGGTTGCAGGTCCCGACCACTGACCCTTCCCGGCTGCCCTCCCTCCCCAGCTTACACCTCAAGCCCAGCACG
CAGTGACCTTGAACAGAGGGAGGGGAGGACCCATGGCTCTCCCCCTAGCCCCGGGAGACCAGGGCCTTCTCTT
CCTCTGCTTTTATTTAATAAAACTAAAAACAGAAA

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FIGURE 5579

MSSPTTSSLDTPLEPGNGPPQPGAPSSSPTVKEEGPEPWPGGPDVPGTDEASSACSTDWVIPDEEEPERKRKK
GPAPKMLGHELCRVCGDKASGFHYNVLSCEGCKGFFRRSVVRGGARRYACRGGGTCQMDAFMRRKCQQCRLRKCK
EAGMREQCVLSEEQIRKKKIRKQQQESQSQSQSPVGPQGSSSSASGPGASPGGSEAGSQSGEGEGVQLTAAQEL
MIQQLVAAQLQCNKRSFSDQPKVTPWPLGADPQSRDARQQRFAHFTELAIISVQEIVDFAKQVPGFLQLGREDQI
ALLKASTIEIMLLETARRYNHETECITFLKDFTYSKDDFHRAGLQVEFINPIFEFSRAMRRLGLDDAEYALLIAI
NIFSADRPNVQEPGRVEALQOPYVEALLSYTRIKRPQDQLRFPRMLMKLVSLRTLSSVHSEQVFALRLQDKKLPP
LLSEIWDVHE

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FIGURE 5580

AGTCAGGGGTCACGGCGGCGTAGGCTGTGGCGGGAAACGCTGTTTGAAGCGGGATCGATGGCAAGCGGCGGCCAG
GCCAGGGCCCGGGGTGCCCCCAAAGCGGGCCCGTGGGGGCTCTGGGATGATGATGATGCACCTTGGCCATCCC
AATTCGAGGAGGACCTGGCACTGATGGAGGAGATGGAGGCAGAACACAGGCTGCAGGAGCAGGAGGAGGAGGAGC
TGCAGTCAGTCCTGGAGGGGGTTGCAGACGGGCAGGTCCCACCATCAGCCATAGATCCTCGCTGGCTTCGGCCCCA
CACCACCAGCGCTGGACCCCCAGACAGAGCCCCCTCATCTTCCAACAGTTGGAGATTGACCATTATGTGGGCCCCAG
CGCAGCCTGTGCCTGGGGGGGCCCCACCATCCGCGGGCTCCGTGCCTGTGCTCCGCGCCTTCGGGGTCACCGATG
AGGGGTTCTCTGTCTGTCTGCCACATCCACGGCTTCGCTCCCTACTTCTACACCCCAGCGCCCCCTGGTTTCGGGC
CCGAGCACATGGGTGACCTGCAACGGGAGCTGAACTTGGCCATCAGCCGGGACAGTCGCGGGGGGAGGGAGCTGA
CTGGGCGGCGCGTGTCTGGCTGTGGAAGTGTGCTCCCGAGAGAGCATGTTTGGGTACCACGGGCACGGCCCCCTCCC
CGTTCCTGCGCATCACCGTGGCGCTGCCGCGCCTCGTGGCCCCGGCCCGCGTCTCCTGGAACAGGGCATCCGTG
TGGCAGGCCTGGGCACGCCCAGCTTCGCGCCCTACGAGGCCAACGTCGACTTTGAGATCCGTTTCATGGTGGACA
CGGACATCGTCGGCTGCAACTGGCTGGAGCTCCCAGCTGGGAAATACGCCCTGAGGCTGAAGGAGAAGGCTACGC
AGTGCCAGCTGGAGGCGGACGTGCTGTGGTCTGACGTGGTCAGTCACCCACCGGAAGGGCCATGGCAGCGCATTG
CGCCCTTGCGCGTGTCTCAGCTTCGATATCGAGTGC CGCGGCCGCAAGGCATCTTCCCTGAGCCTGAGCGGGACC
CTGTCACTCAGATCTGCTCGCTGGGCTGCGCTGGGGGGAGCCGGAGCCCTTCTACGCTGGCGCTCACCTGCG
GGCCCTGTGCCCCATCTCTGGGTGCCAAGGTGCAGAGCTACGAGAAGGAGGAGGACCTGCTGCAGGCCTGGTCCA
CCTTCATCCGTATCATAGGACCCCGACGTGATCACCGGTTACAACATCCAGAACTTCGACCTTCCGTACCTCATCT
CTCGGGCCCAGACCTCAAGGTACAAACATTCCCTTTCCTGGGCCGTGTGGCCGGCCTTGTCTCAACATCCGGG
ACTCTTCATTCCAGTCCAAGCAGACGGGCGCGGGGACACCAAGGTTGTGAGCATGGTGGGCCGCGTGCAGATGG
ACATGCTGCAGGTGCTGCTGCGGGAGTACAAGCTCCGCTCCACACGCTCAATGCCGTGAGCTTCCACTTCTCTGG
GCGAGCAGAAGGAGGACGTGCAGCACAGCATCATACCGACTGCAGAATGGGAACGACACGACCCCGCCGCCGCC
TGGCTGTGTACTGCCTGAAGGATGCCTACCTGCCACTGCGCTGCTGGAGCGGCTCATGGTGTGGTGAACGCCG
TGGAGATGGCGAGGGTCACTGGCGTGCCCTCAGCTACCTGCTCAGTCGTGGCCAGCAGGTCAAAGTCGTATCCC
AGCTGTTGCGGCAGGCCATGCACGAGGGGCTGTGATGCCGTGGTGAAGTCAGAGGGCGGCGAGGACTACACGG
GAGCCACTGTATCGAGCCCTCAAAGGGTACTACGACGTCCCATCGCCACCCTGGACTTCTCCTCGCTGTACC
CGTCCATCATGATGGCCACAACCTGTGTTACACCACGCTCCTTCGGCCCCGGGACTGCACAGAACTGGGCTTGA
CTGAGGATCAGTTTCATCAGGACCCCCACCGGGGACGAGTTTGTGAAGACCTCAGTGCAGGAGGGGCTGCTGCCCC
AGATCCTGGAGAACCTGCTCAGTGCCCGGAAGAGGGCCAAGGCCGAGCTGGCCAAGGAGACAGACCCCTCCGGC
GCCAGGTCTTGATGGACGGCAGCTGGCGCTGAAGGTGAGCGCCAACCTCCGTATACGGCTTCACTGGCGCCCAGG
TGGGCAAGTTGCCGTGCCTGGAGATCTCACAGAGCGTCACGGGGTTCGGACGTGAGATGATCGAGAAAACCAAGC
AGCTGGTGGAGTCTAAGTACACAGTGGAGAATGGCTACAGCACCAAGTGCCAAGGTGGTGTATGGTGACACTGACT
CCGTATGTGCCGATTGGCGGTGTCTCGGTGGCTGAGGCGATGGCCCTGGGGCGGGAGGCCGCGGACTGGGTGT
CAGGTCACTTCCCGTCGCCCATCCGGCTGGAGTTTGAGAAGGTCTACTTCCCATACTGCTTATCAGCAAGAAGC
GCTACGCGGGCCTGCTCTTCTCCTCCCGGCCCCGACGCCACGACCGCATGGACTGCAAGGGCCTGGAGGCCGTGC
GCAGGGACAAC TGCCCCCTCGTGGCCAACCTGGTCACTGCCTCACTGCGCCGCTGCTCATCGACCGAGACCCTG
AGGGCGCGGTGGCTCACGCACAGGACGTCACTCGGACCTGCTGTGCAACCGCATCGATATCTCCAGCTGGTCA
TCACCAAGGAGCTGACCCGCGCGGCTCCGACTATGCCGGCAAGCAGGCCACGTTGGAGCTGGCCGAGAGGATGA
GGAAGCGGGACCCCGGGAGTGCGCCAGCCTGGGCGACCGGTCCCCTACGTGATCATCAGTGCCGCCAAGGGTG
TGGCCGCTACATGAAGTCGGAGGACCCGCTGTTCTGTGCTGGAGCACAGCCTGCCATTGACACGCAGTACTACC
TGGAGCAGCAGCTGGCCAAGCCCCCTCTGCGCATCTTCGAGCCCATCCTGGGCGAGGGCCGTGCCGAGGCTGTGC
TACTGCGGGGGGACCACACGCGCTGCAAGACGGTGTACGGGCAAGGTGGGCGGCCTCCTGGCCTTCGCCAAAC
GCCGCAACTGCTGCATTGGCTGCCGCACAGTGTCTAGCCACCAGGGAGCCGTGTGTGAGTTCTGCCAGCCCCGGG
AGTCTGAGCTGTATCAGAAGGAGGTATCCCATCTGAATGCCCTGGAGGAGCGCTTCTCGCGCCTCTGGACGCAGT
GCCAGCGCTGCCAGGGCAGCCTGCACGAGGACGTCACTTGACACAGCCGGGACTGCCCCATCTTCTACATGCGCA
AGAAGGTGCGGAAGGACCTGGAAGACCAGGAGCAGCTCCTGCGGCGCTTCGGACCCCTGGACCTGAGGCCCTGGT
GACCTTGCAAGCATCCCATGGGGCGGGGGCGGGACCAGGGAGAATTAATAAAGTTCTGGACTTTTGT

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FIGURE 5581

MDGKRRPGFPGVPVKRARGGLWDDDDAPWPSQFEEDLALMEEMEAHRLQEQEEEEELQSVLEGVADGQVPPSAI
DPRWLRETPPALDPQTEPLIFQQLEIDHYVGPAQPVPGGPPPSRGSVPLRAFGVTDEGFSVCCHIHGFAPYFYT
PAPPGFGEHMGDLQREINLAISRDSRGGRELTGPAVLAVELCSRESMFGYHGHGSPFLRITVALPRLVAPARR
LLEQGIRVAGLGTPSFAPYEANVDFEIRFMVDTDIVGCNWLELPAGKYALRLKEKATQCQLEADVLSDDVVSHP
EGPWQRIAPLRVLSFDIECAGRKGFPEPERDPVIQICSLGLRWGEPEPFLRLALTLRPCAPILGAKVQSYEKKE
DLLQAWSTFIRIMDPDVITGYNIQNFDPYLIISRAQTLKVQTFPFLGRVAGLCSNIRDSSFQSKQTGRDITKVS
MVGRVQMDMLQVLLREYKLRSHTLNAVSHFLGEQKEDVQHSIITDLQNGNDQTRRLAVYCLDAYLPLRLER
LMVLVNAVEMARVTGVPLSYLLSRGQQVKVVSQLLRQAMHEGLLMPVVKSEGGEYTGATVIEPLKGYDVP IAT
LDFSSLYPSIMMAHNLCTTLLRPGTAQKLGLTEDQFIRTPTGDEFVKTSVRKGLLPQILENLLSARKRAKAE
KETDPLRRQVLDGRQLALKVSANSVYGFTGAQVGKLPCLISQSVTGFGROMIEKTKQLVESKYTVENGYSTSAK
VYGD TD SVMCRFGVSSVAEAMALGREAADWVSGHFPSPIRLEFEKVYFPYLLISKRYAGLLFSSRPDAHDRMD
CKGLEAVRRDNCPLVANLVASLRRLIDRDPEGAVAHQDVISDLCNRIDISQLVITKELTRAASDYAGKQAH
VELAERMKRDPGSAPSLGDRVPYV IISAAGVAAYMKSEDPFLVLEHSLPIDTQYYLEQQLAKPLLRIFEPILG
EGRAEAVLLRGDHTCKTVLTGKVGGLLAFKRRNCCIGCRTVLSHQGAVCEFCQPRESELYQKEVSHLNALEER
FSRLWTQCQRCQGS LHEDVICTSRDCPIFYMRKKVRKDLEDQEQLLRFGPPGPEAW

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FIGURE 5582

GCCTCCTTCCGTCTGTAACCTACCTAAAGACCCAAAGACCTGCGACATCCGTAGACCGCGCCCGCTATGCACAGCT
AAAGAGCACTCACCCCTCGCGCACCAAGTCCCCGGCCCGGCAGCCGCTGCCCGGGCTCGACTGGGCGCTGCTACCG
CCATCAGCAAGAGCAGGAGCAGCCGGGTTGCCCCAGCGCTGGCTGCCGCCATCTCGGCTTCTTCCCACCAGCGAA
GGGACGGCTGTGAGCCAAGAGCCGCGGAGCACGCCGGGAGGAACAGGCCGCATCCTGACGCCCGTGCGCCTGCGC
TGGGCCCCGGCACCTGCGCACTGGCACCCGTCCGCACCTGGGGCCTGACGTCAGCAGGATCGGGCCGCCCTTTG
GCCTGATCTCCAGGAGCCGCCCCCTCCAGGGACGTCATCACAAATCAGGAGCCCGCTCTTGTGTGACGTCATAAA
GCCCCGTCCGCATCATGACGTCACAGTGCGCGTAGTCCCGCCCCCTCGCTTTCTCCCTCTGCTCCTCCGTCCGCT
CCCGTCGGACGGGGACATTGCAATGAGGCGGGATCGCGGCCCTAAGCCGGCCCTGGGTGGAGCTGGCGAGGTGGA
ACCAGGTGGGATGGCAGCCTCTCCCACGGGCCGTCCAGACGGCTCCAACGCTACCTCCAGAGCGGCCGAATTCGA
CCAGTTTCGGGACTTCCCCATCTTTGAGAGCAACTTCGTACAGTTCTGCCCCGACATCTATCCTGCCCGACCTC
TGACCTCTGGCCCCAGGTGACTCGGTTGGGAGAAGTTGCCAACGAGGTCACCATGGGGGTGGCAGCCTCCAGTCC
AGCCCTGGAGCTCCCGGACCTATTGCTTCTGGCCGGCCCTGCCAAGGAGAACGGACACCTGCAACTCTTCGGGCT
GTCCCCCTTGAAGTTCGTCCAGCTCTTTGTCCACGACAAAAGCCGGTGTGAGCTCGAGGTCAAGTTGAACACCAG
CCGCACCTTCTACTTGACGCTGCGGGCCCCACTCAAGACCCGAGACCGAGAGTTGCGCCAGTGGGTGCGGCTGCT
CTACCGCCTGCGCTTCTCTCTGCTTCTGCTGTGCCCTTCACGCAGGAGTAAGAGCCCCAAGGCGTGGAAGCCAG
ACTTGACCCCAAGACCTCTGAACTCTGGGGACTCTGAGTCTTCAGCATCCTTCAAGGTCACCGAATGACCAGAG
ATCAAAGTACCTTGCTCAGGGCCGGGCAGATGAGATATTAAAGTTAATAAAGGTCAGTCCATTAAGAACCAA

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FIGURE 5583

MGFPLWPDLOEPPPPGTSSQIRSPLLCDVIKPAPHHDVTVRVVPPPRFLPLLLLRPLPSDGD IAMRRDRGPKPALG
GAGEVEPGGMAASPTGRPRRLQRYLQSGEFDQFRDFPIFESNFVQFCPDIYPAPTS DLWPQVTRLGEVANEVTMG
VAASSPALELPDLLLLLAGPAKENHGLQLFGLFPLKFVQLFVHDKSRCQLEVKLNTSRTFY LQLRAPLKTRDREFG
QWVRLLYRLRFLSASAVPFTQE

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FIGURE 5584

GCCGTCCCTTCGCTGGTGGGAAGAAGCCGAGATGGCGGCAGCCAGCGCTGGGGCAACCCGGCTGCTCCTGCTCTT
GCTGATGGCGGTAGCAGCGCCAGTCGAGCCCGGGCAGCGGCTGCCGGGCCGGGACTGGTGCGCGAGGGGCTGG
GGCGGAAGGTCGAGAGGGCGAGGCCTGTGGCACGGTGGGGCTGCTGCTGGAGCACTCATTGAGATCGATGACAG
TGCCAACCTCCGGAAGCGGGGCTCACTGCTCTGGAACCAGCAGGATGGTACCTTGTCCCTGTACAGCGGCAGCT
CAGCGAGGAGGAGCGGGGCCGACTCCGGGATGTGGCAGCCCTGAATGGCCTGTACCGGGTCCGGATCCCAAGGCC
ACCCGGGGCCCTGGATGGCCTGGAAGCTGGTGGCTATGTCTCCTCCTTTGTCCCTGCGTGCTCCCTGGTGGAGTC
GCACCTGTGCGGACCAGCTGACCCTGCACGTGGATGTGGCCGGCAACGTGGTGGGCGTGTCGGTGGTGACGCACCC
CGGGGGCTGCCGGGGCCATGAGGTGGAGGACGTGGACCTGGAGCTGTTCAACACCTCGGTGCAGCTGCAGCCGCC
CACCACAGCCCCAGCCCTGAGACGGCGGCCTTCATTGAGCGCCTGGAGATGGAACAGGCCAGAAAGGCCAAGAAC
CCCCAGGAGCAGAAGTCCTTCTTCGCCAAATACTGGATGTACATCATTCCCGTCGTCTTCTCATGATGTCA
GGAGCGCCAGACACCGGGGGCCAGGGTGGGGGTGGGGGTGGGGGTGGTGGTGGGGGTAGTGGCCGGTGAGGGCCC
AGGCTGGTCAGCGTCCCGTCTTGACACCCAGGGGCCTCCCTTTCTGCTGGAGTCCCTGTGTCTCAGCCATCC
CAAGAAGGGTTTGCTGGTCCCTCCTTTCCCCCGTCCACGAGGCCACCTGGGCCAGCCCCCTGTCTCTGCCTT
CTGCTGGCAGAGGAGCAGCTGGACTGGGGCCTTTGGCACAGCAGCCGGTGTCTCCTGCGCCCGCCTCCCCCATGG
CCCCATGCAGCCCCAGGGGCTTCCCCCTGCCCATGGAGTAGAGCCCGAGATCCTGGCCACTATGCCAGTTCTGA
CCTCGCATCCCCCTACCCGAGCCCATGCAGTCTGGGAACATGCCGCCTTCTCTCCAGCCTCTGTGCCTTTGTTT
CAGGTGGTCTCACCCCTCCTGTCCCTGGCTGGGCTAGGTGGTCCCTGTCCAGGCTCCTGCAGCGCCCCCTCACTTT
GACACTGGACTAGGATGCAGCCTCCCTTCTGTGTCCCTTGAGGGTACCCTGGGTCCCCTCATCAGGGGCAGAGG
CATGAAAGAGTCGGGGCTGGATGGCCGGGGGCTTCTGGGCCCGACGCCTAGTGCAGCCCCTGGGGTTCGTGGTTTG
ACATTTGTCTGCCTGGTGCAACAAGGAATCCTTGCTTTAAGGTGACAGGCCCTCCACAGGCTTCCAGACTTGA
AGGAAAAGGTTTAAGAAAGAAAACAAACCAACAGTTAGTGGAGTCAAAGCCCAGACACTGTAAATAGAACCCCC
TCCACCACCCCCCGCCGCCAGCATCTACCTGGACTGCGGTGCTACGAGGGCCTGCGGGCCTTTGCTGTGTGCC
ACCTCCCTGTAAGTCTATTTAAAAACATCGACGATACATTGAAATGTGTGAACGTTTGAAGCTACAGCTTC
CAGCAGCCAAAAGCAACTGTTGTTTTGGCAAGACGGTCCTGATGTACAAGCTTGATTGAAATTCAGTCACTT
GATACGTTATTTCAGAAACCAAGGAATGGCTGTCCCATCCTCATGTGGCTGTGTGGAGCTCAGCTGTGTTGTGT
GGCAGTTTATTAACTGTCCCCAGATCGACACGC

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FIGURE 5585

MAASAGATRLLLLLLMAVAAPSRARGSGCRAGTGARGAGAEGREGEACGTVGLLLEHSFEIDDSANFRKRGSLL
WNQQDGTLSLSQRQLSEEERGRIRDVAALNGLYRVRIIPRRPGALDGLEAGGYVSSFVPACSLVESHLSDDLTLHV
DVAGNVVGVSVVTHPGGCRGHEVEDVDLELFNTSVQLQPPTTAPGPETAAFIERLEMEQAQKAKNPQEQKSFFAK
YWMYIIPVVLFLMMSGAPDTGGQGWGWGWGWGW

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FIGURE 5586

ATGGGGGTGGGGGATGCGGGCTGGCAGCGGGAGAGCTGGGGACAGATGCGGAGCCCTCCCTTCACCTGCCACA
CCTGTCACTCCACGGTTGCCTTGTCTGCCACCTTACCTCTCTCTCCCTCAGATTCTCCCATGAGTCTGACTCAA
GTCTCTGAAGCTGCTGTGAGGCCCCACAGGGCCTGGACAGGCCTCTCCCCCTTCTCTCCCCACCCACAGCCCC
CCAGCGTCCACGCGGAGCATGAACATTGAGGATGGCGCGTGCCCGCGGCTCCCCGTGCCCCCGCTGCCGCCCGC
AACCAGGCCAGCCGGGTGATCTGCACACGGAGAGACCTGGCCGAGGTCCCAGCCAGCATCCCGGTCAACACGCGG
TACCTGAACCTGCAAGAGAACGGCATCCAGGGTGGGAGGACTTGGCTGCTCCCATCTGACCATCCTGAGAGCCAG
ATTCAGGGAAGAAAAGGGACCTCTCAGGGGAGCAGTCCCTTCTTGGTGGCTGTGGGGCAAGGGCCAGCGAAGGGG
TCCAGAAACGGGTCTTGCACCGCCCCCTGCCCCACCCAGAGACATGGATGGAGGGTGTGTTCTCGTCCAGTCCACG
AGAGTGGATGCTTCTGGGTCACTGCGTGCTGAGCGCCGAGCAGCCTCAGGCTGTCCGCTGTGGCCACGCTGTTG
TCACGGTCTCTGTCCAGAGGCACCAAGGAGACTTGGAAAACACTGTGGGCTGGAGCCCCAGGTGCACGCTCCCC
GGGACCGGCAGCCCTGCTGAGTCACTTGACTTCACCGAGCCTTGGTCTCCTGTCTCTGAAATGACGTGTGATGCT
CACCTCCAGGGCTGCCGGGGGAGTCAGCAGGAGCCTGGGGTGCCGAGAGGCTCCGGGAGCTGCAGGCAGGAGCG
ATCAGTGATGACCGGGACCTCCTCCTCCTGTTACTATTATTGATGTTATTATTATTAAGAAATAGCAACCGAG
TGCCTGCTTTATCAATCACCAGCATTTCACAGGGAGGTGATAAGCTGCGTTTGGGCATGGTACAAGTTTCTCAAC
GCCAACGATAACGATAACAATGAGAATGACGACGTGCTGAGCACCCTGAACACTGGGACCTCATCTCCTCTCCC
TCACCTCTGAAGTGCTTTTCATCATCCTCCTCGTGGTGATCCGGACGGACACGTTCAAGCACCTGCGGCACCTG
GAGATTCTGCAGCTGAGCAAGAACCTGGTGCGCAAGATCGAGGTGGGCGCCTTCAACGGGCTGCCAGCCTCAAC
ACGCTGGAGCTTTTGGACAACCGGCTGACCACGGTGCCACGACGGCCTTCGAGTACCTGTCCAAGCTGCGGGAG
CTCTGGCTGCGGAACAACCCATCGAGAGCATCCCTCCTACGCCTTCAACCGCGTGCCCTCGCTGCGGCGCCTG
GACCTGGGCGAGCTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTG
AACCTGGGCATGTGCAACCTCAAGGACATCCCCAACCTGACGGCCCTGGTGCGCTGGAGGAGCTGGAGCTGTG
GGCAACCGGCTGGACCTGATCCGCCCCGGGCTCCTTCCAGGGTCTACACAGCCTGCGCAAGCTGTGGCTCATGCAC
GCCAGGTAGCCACCATCGAGCGCAACGCCTTCGACGACCTCAAGTCGCTGGAGGAGCTCAACCTGTCCACAAC
AACCTGATGTGCTGCCCCACGACCTCTTCACGCCCCCTGCACCGCCTCGAGCGCTGCACCTCAACCACAACCCC
TGGCATTGCAACTGCGACGTGCTCTGGCTGAGCTGGTGGCTCAAGGAGACGGTGCCAGCAACACGACGTGCTGC
GCCCCGTGTATGCGCCCGCGGCTCAAGGGGCGCTACATTGGGGAGCTGGACCATGCAATTCACCTGCTAT
GCGCCCGTATCGTGAGCCGCCCCACGGACCTCAACGTACCGAGGGCATGGCTGCCGAGCTCAAATGCCGCACG
GGACCTCCATGACCTCCGTCAACTGGCTGACGCCCAACGGCACCTCATGACCCACGGCTCCTACCGCGTGCGC
ATCTCCGTCTGATGACGGCAGCTTAACCTTACCAACGTACCGTGACAGACAGGGCCAGTACACTGGTGGT
GTTGGAGGGGGCAGTGGCGGCTACACCTACTTACACGGTGACCGTGAGACCTGGAGACGACGCCGGAGAG
GAGGCCCTGCAGCCGCGGGGGACGGAGAAGGAACCGCCAGGGCCCACGACAGACGGTGTCTGGGGTGGGGCCGG
CCTGGGGACGCGCGCGGCCCTGCCTCGTCTTCTACACGGCACCCGCCCGCGCTCCTCGCGGCCACGGAGAAG
GCGTTCACGGTGCCCATCACGGATGTGACGGAGAACGCCCTCAAGGACCTGGACGACGTATGAAGACCACAAA
ATCATCATCGGCTGCTTCGTGGCCATCACGTTTCATGGCCGCGGTGATGCTCGTGCCCTTCTACAAGCTGCGCAAG
CAGCACCAGCTCCACAAGCACCACGGGCCCACGCGCACCGTGAGATCATCAACGTGGAGGACGAGCTGCCCGCC
GCCTCGGCCGTGTCCGTGGCCGCCGCGGCCCGCTGGCCAGTGGGGGTGGTGTGGGCGGGGACAGCCACCTGGCC
CTGCCCCCCTGGAGCGAGACCACCTCAACCACCACCTACGTGGCTGCCGCTTCAAGGCGCACTACAGCAGC
AACCCAGCGGCGGGGGCTGCGGGGGCAAGGCCCGCCTGGCCTCAACTCCATCCACGAACCTCTGCTCTTCAAG
AGCGGCTCCAAGGAGAACGTGCAAGAGACGCAGATCTGA

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FIGURE 5587

MAAAGLEAGVGAVGSHRPGCVPRPQIQALRFGPALWLRGCGLDHRQGLKSPPASTRSMNIEDGACPRLPVPPAAA
RNQASRVICTRRDLAEVPASIPVNTRYLNLQENGIQGGRTWLLPSDHPESQIQGRKSTSQGSSPFLVAVGQGP
GSRNGFLHRPLPHPETWMEGVFVQSTRVDASGSLRAERRAASGCPPVATLLSRSSVQRHQGDLENTVGWSPRCTL
PGTGSPAESLDFTEPWSPVSEMTCD AHLQGCRGSQQEPGVPQRLRELQAGAI SDDRDL LLLLLLLLMLLLL IEIAT
ECLLYQSPAFPREVI SCVWAWYKFLNANDNDNNENDDDLSTPEHWDLI SSPSPSEVLFI ILLV VIRTDTFKHLRH
LEILQLSKNLVRKIEVGA FNGLPSLNTLELFDNRLTTVPTQAFEYLSKLRELWLRNNP IESIPSYAFNRVPSLRR
LDLGELKRLEYISEAAFEGLVNLRYLNLGMCNLKDIPNLTA LVRLEELELSGNRLDLIRPGSFQGLTSLRKLWLM
HAQVATIERNAFDDLKSLEELNLSHNNILMSLPHDLFTPLHRLERVHLNHNPNWHCNC DVLWLSWWLKETVPSNTTC
CARCHAPAGLKGRYIGELDQSHFTCYAPVIVEPPTDLNVTEGMAAE LKCRGTSTMTSVNWLT PNGTLMTHGSYRV
RISVLHDGTLNF TNVTVDITGQYTGGVGGSGGYTYFTTVTVETLETQPGEEALQPRGTEKEPPGPTTDGVWGGG
RPGDAAGPASSSTTAPAPRSSRPTEKAFTVPITDV TENALKDLDVMKTTKIIIGCFVAITFMAAVMLVAFYKLR
KQHQLHKHHGPTRTVEI INVEDELPAASAVSVAAAAAVASGGGVGGD SHLALPALERDHLNHHHYVAAAFKAHYS
SNPSGGGCGGKGPPGLNSIHEPLLKSGSKENVOETOI

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FIGURE 5588

CACTCATTAAAGAACAGAGGAGGCTGCCTGTTACTCCTGGTGTTCATCCCTCCAGACACTCTGCTGTTTCCTGCC
TAGGCGTGGCTGCAGCCATGGCTAGGAAAGCGCTGCCACCCACCCACCTGGGCCAGAGCTGGTTCTGCTCCTGCT
GCAGGGACACTGAGCTGGCTATCTCGGCGCTTCGGGCAAGAACTGCAACAGGCTCTCCTGGGTCTGCAGGTGTA
CAGCCGGGCCCTGCCTTGTGCCTCAGCTCTCGAGAGCTGCTGCTGCCGGGTGACCTGATCCAACCTGATAAGGT
GCCATCTTCAGCTACCACTGCAAGGCCCTGAGGGCAACAGCAGCACGGCACTGCCCACCCGGCTGCTGATGGCCT
GGTGGCAGCTGGGAGTCCTCCCGGCACTTCGAGGGCACTGAGCCACCCTTCCAGCCCCAGCCCACCATGGACAGG
GGTATCCAGCTTCCTCCTCAACCTCGTCCTCTGCCCCTGAGCCAGTGACGCCCAAGGACATGCCTGTTACCCAGG
TCCTGTACCAGCACTAGCTGGTCAAGGGCATGACAGTGCTGGAGGCCGTCTTGGAGATCCAGGCCATCACTGGCA
GCAGGCTGCTCTCCATGGTGCCAGGGCCCCGAGGCCACCAGGCTCATGCTGGGACCCAAACCCAGTGACAAGGA
CTTGGCTGCTGAGCCACACACCCAGGAGAAGGTGGATAAGTGGGCTACCAAGGGCTTCCTGCAGGCTAGGGGAGG
AGCCACCCCGCTTCCTATTGTGACCAGGCCTATGGGGAGGAGCTGTCCATACGCCACCGTGAGACCTGGGCCT
GGCTCTCAAGGACAGACACCGCTGGCCTGGTGCTCCAGGGGTGAAGCAGGCCAGAATCCTGGGGGAGCTGCTCC
TGGTTTGAGCTGCATTCAAGGAAGTGGGGACATGGTAGGGGAGGCCAAAAAGCCTTGGGCACTACCCCTCCCTGTGG
AGCTGTTCCGGTGTCGGTCGAGCTAGCCACACCTGACACCATGTTCAAGGGTACCGGAAGAGAAGGGTGTCTGCC
CCCAACCTCCCCCTGTGGGTGTCACTGGCCAGATGTCATGAGGGAAGCAGGCCTTGTGAGTGGAACACTGACCATGA
GTCCCTGGGGGGAGTGATCCCCCAGGCATCGTGTGCCATGTTGCACTTCTGCCCAGGCAGCAGGGTGGGTGGGTA
CCATGGGTGCCCCACCCCTCCACCACATGGGGCCCCAAAGCACTGCAGGCCAAGCAGGGCAACCCACACCCCTTGA
CATAAAAGCATCTTGAAGCTTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 5589

MTVLEAVLEIQAITGSRLLSMVFGPARPPGSCWDPTQCTRTWLLSHTPRRRWISGLPRASCRLGEEPPPLPYCDQ
AYGEELSIRHRETWAWLSRTDTAWPGAPGVKQARILGELLV

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FIGURE 5590

AGCCCCAAGCTTACCACCTGCACCCGGAGAGCTGTGTGTACCAATGTGGGTCCCGGTTGTCTTCCTCACCCCTGTC
CGTGACGTGGATTGGTGTCTGCACCCCTCATCCTGTCTCGGATTGTGGGAGGCTGGGAGTGCGAGAAGCATTCCCA
ACCTGGCAGGTGCTTGTGGCCTCTCGTGGCAGGGCAGTCTGCGGCGGTGTTCTGGTGCACCCCCAGTGGGTCTT
CACAGCTGCCCACTGCATCAGGAACAAAAGCGTGATCTTGCTGGGTGCGCACAGCCTGTTTCATCCTGAAGACAC
AGGCCAGGTATTTAGGTGAGCCACAGCTTCCCACACCCGCTCTACGATATGAGCCTCCTGAAGAATCGATTCTT
CAGGCCAGGTGATGACTCCAGCCACGACCTCATGCTGCTCCGCCTGTCAGAGCCTGCCGAGCTCACGGATGCTGT
GAAGGTCATGGACCTGCCCACCCAGGAGCCAGCACTGGGGACCACCTGCTACGCCTCAGGCTGGGGCAGCATTGA
ACCAGAGGAGTTCTTGACCCCAAAGAACTTCAGTGTGTGGACCTCCATGTTATTTCCAATGACGTGTGTGCGCA
AGTTACCCCTCAGAAGGTGACCAAGTTCATGCTGTGTGCTGGACGCTGGACAGGGGGCAAAGCACCTGCTCGGG
TGATTCTGGGGGCCCCTTGTCTGTAAATGGTGTGCTTCAAGGTATCACGTCATGGGGCAGTGAACCATGTGCCCT
GCCCAGAAAGGCCTTCCCTGTACACCAAGGTGGTGCATTACCGGAAGTGGATCAAGGACACCATCGTGGCCAACCC
CTGAGCACCCCTATCAACCCCTATTGTAGTAACTTGGAACCTTGGAATGACCAGGCCAAGACTCAAGCCTCC
CCAGTTCTACTGACCTTTGTCCTTAGGTGTGAGGTCCAGGGTTGCTAGGAAAAGAAATCAGCAGACACAGGTGTA
GACCAGAGTGTTTTCTTAAATGGTGTAAATTTGTCCTCTCTGTGTCCTGGGGAATACTGGCCATGCCTGGAGACAT
ATCACTCAATTTCTCTGAGGACACAGATAGGATGGGGTGTCTGTGTTATTTGTGGGGTACAGAGATGAAAGAGGG
GTGGGATCCACACTGAGAGAGTGGAGAGTGACATGTGCTGGACACTGTCCATGAAGCACTGAGCAGAAGCTGGAG
GCACAACGCACCAGACACTCACAGCAAGGATGGAGCTGAAAACATAACCCACTCTGTCTTGGAGGCACTGGGAAG
CCTAGAGAAGGCTGTGAGCCAAGGAGGGAGGGTCTTCCTTTGGCATGGGATGGGGATGAAGTAAGGAGAGGGACT
GGACCCCTGGAAGCTGATTCACTATGGGGGGAGGTGATTGAAGTCCTCCAGACAACCCCTCAGATTTGATGATT
TCCTAGTAGAACTCACAGAAATAAGAGCTGTTATACTGTG

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FIGURE 5591

MWVPVVFLTILSVTWIGAAPLILSRIVGGWECEKHSQPWQVLVASRGRAVCGGVLVHPQWVLTAACHCIRNKS VILL
GRHSLFHPEDTGQVFQVSHSFPHPLYDMSLLKNRFLRPGDDSSHDLMLLRLSEPAELTDAVKVMDLPTQEPALGT
TCYASGWGSIEPEEFLTPKKLQCVDLHVISNDVCAQVHPQVTKFMLCAGRWTGGKSTCSGDSGGPLVCNGVLQG
ITSWGSEPCALPERPSLYTKVVHYRKWIKDTIVANP

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FIGURE 5592

GGCGGACAAAACCCGATTGTTCTGGGCCCTTTCCCCATCGCGCCTGGGCCTGCTCCCCAGCCCGGGCAGGGGC
GGGGGCCAGTGTGGTGACACACGCTGTAGCTGTCTCCCGGCTGGCTGGCTCGCTCTCTCTCTGGGGACACAGAGG
TCGGCAGGCAGCACACAGAGGGACCTACGGGCAGCTGTTCTTCCCCGACTCAAGAATCCCCGGAGGCCCGGAG
GCCTGCAGCAGGAGCGGCCATGAAGAAGCTGATGGTGGTGCTGAGTCTGATTGCTGCAGCCTGGGCAGAGGAGCA
GAATAAGTTGGTGCATGGCGGACCCTGCGACAAGACATCTCACCCCTACCAAGCTGCCCTCTACACCTCGGGCCA
CTTGCTCTGTGGTGGGGTCCTTATCCATCCACTGTGGGTCTCACAGCTGCCCACTGCAAAAAACCGAATCTTCA
GGTCTTCTGGGGAAGCATAACCTTCGGCAAAGGGAGAGTTCCCAGGAGCAGAGTTCTGTTGTCCGGGCTGTGAT
CCACCCTGACTATGATGCCGCCAGCCATGACCAGGACATCATGCTGTTGCGCCTGGCAGCGCCAGCCAAACTCTC
TGAATCATCCAGCCCCCTTCCCCTGGAGAGGGACTGCTCAGCCAACACCACCAGCTGCCACATCCTGGGCTGGGG
CAAGACAGCAGATGGTGATTTCCCTGACACCATCCAGTGTGCATACATCCACCTGGTGTCCCGTGAGGAGTGTGA
GCATGCCTACCTTGGCCAGATCACCCAGAACATGTTGTGTGCTGGGGATGAGAAGTACGGGAAGGATTCTGCCA
GGGTGATTCTGGGGGTCCGCTGGTATGTGGAGACCACCTCCGAGGCCTTGTGTGATGGGGTAACATCCCCCTGTGG
ATCAAAGGAGAAGCCAGGAGTCTACACCAACGTCTGCAGATACACGAAGTGGATCCAAAAAACCATTCAGGCCAA
GTGACCCTGACATGTGACATCTACCTCCCGACCTACCACCCCACTGGCTGGTTCAGAACGTCTCTCACCTAGAC
CTTGCCCTCCCCCTCCTCTCCTGCCAGCTCTGACCCTGATGCTTAATAAACGCAGCGACGTGAGGGTCTTGATTCT
CCCTGGTTTTACCCCAGCTCCATCCTTGATCACTGGGGAGGACGTGATGAGTGAGGACTTGGGTCTCGGTCTT
ACCCCCACCACTAAGAGAATACAGGAAAATCCCTTCTAGGCATCTCCTCTCCCCAACCCCTCCACACGTTTGATT
TCTTCTGTCAGAGGCCCAGCCACGTGTCTGGAATCCCAGCTCCGCTGCTTACTGTCCGGTGTCCCCCTTGGGATGTA
CCTTCTTCACTGCAGATTTCTCACCTGTAAGATGAAGATAAGGATGATACAGTCTCCATAAGGCAGTGGCTGTT
GGAAAGATTTAAGGTTTCACACCTATGACATACATGGAATAGCACCTGGGCCACCATGCACCTCAATAAAGAATGA
ATTTT

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FIGURE 5593

CACCCCTGTAAGTGGCTGCGGCGGGAAGATGGCGGAGCTGCGCGTGCTCGTAGCTGTCAAGAGGGTCATCGACTAC
GCCGTGAAGATCCGAGTGAAGCCTGACAGGACCGGTGTGGTACGGATGGTGTGAAGCACTCCATGAACCCCTTC
TGTGAGATCGCGGTGGAGGAGGCTGTGCGGCTCAAGGAGAAGAAGCTGGTGAAGGAGGTCATCGCCGTCAGCTGT
GGGCCTGCACAGTGCCAGGAGACGATTTCGTACCGCCCTGGCCATGGGTGCAGACCGAGGTATCCACGTGGAGGTG
CCCCAGCAGAAGCAGAACGCTTGGGTCCCCTGCAGGTGGCTCGGGTCCTGGCCAAGCTGGCAGAGAAGGAGAAG
GTGGACCTGGTGCTGCTGGGCAAACAGGCCATCGATGATGACTGTAACCAGACAGGGCAGATGACAGCTGGATT
CTTGA CTGGCCACAGGGCACATTTCGCCTCCCAGGTGACGCTGGAGGGGGACAAGTTGAAAGTGGAGCGGGAGATC
GATGGGGGCCTGGAGACCCTGCGCCTGAAGCTGCCAGCTGTGGTGACAGCTGACCTGAGGCTCAACGAGCCCCGC
TACGCCACGCTGCCCAACATCATGAAAGCCAAGAAGAAGAAGATCGAGGTGATCAAGCCTGGGGACCTGGGTGTG
GACCTGACCTCCAAGCTCTCTGTGATCAGTGTGGAGGACCCGCCCCAGCGCACGGCCGGCGTCAAGGTGGAGACC
ACTGAGGACCTGGTGGCCAAGCTGAAGGAGATTGGGCGGATTTGAGCCCCCTCCAGAGATGGCAATAAACTGAC
TCTCAACATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5594

MAELRVLVAVKRVIDYAVKIRVKPDRTGVVTDGVKHSMPFCEIAVEEAVRLKEKKLVKEVIAVSCGPAQCQETI
RTALAMGADRGHVEVPPAEAERLGPLQVARVLAKLAEKEKVDLVLLGKQAIDDDCNQTGQMTAGFLDWPQGTFA
SQVTLEGDKLKVEREIDGGLETLRRLKLPVVTTADLRRLNEPRYATLPNIMKAKKKKIEVIKPGDLGVDLTSKLSVI
SVEDPPQRTAGVKVETTEDLVAKLKEIGRI

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FIGURE 5595

GTCCCGCCACACCGCCCGTCCCGCTTAGCCACCTGGCCCCGCCCCTACCGCATCAGCCTTGCCCCACCCCTT
CAGGGTTCCTAAATCTGGCCAGTCTTTCTGCCCTTTCCCTTGCGGTCTTCCCTTGTCATACCCGTTTCCCTGGG
ATCGTACGGACCTTAAAAATACCAGCAACAGCCCTTCGCCCAAGACCATGTAGACAACCCCACTCAGGTCGTG
TTCCTGCTTAAACCCCTTACTGACCTCTGCTTCGGCCCTGCGCCAAGTCGAGTCCTCACTCGGGAGGAGGAGGCA
CTGCAGACAGACAGTGGGGAGAAGGTGAAAGAGTTGGAGCCGACAGCCGACAGAGCTACGTGGTGTGGGACTGAA
AGAGAGGGAGAGAGGGCAGTGGGTGACAAGCAGAGTAGAGGGAGAACCACAGCAGGGAGGAAGCCTAGGGAGTTG
GGGTGTCTAGAGAGTGGGAACAAAGGAGGTGTAACAGATTTGACTTGTAAGAATTAATTATATTGACTGAGAGA
GAAGCCAGAGAGGAAGAAGAGGAAAGAAAGGAGTCAGGGATGGCTCTTACACAGGGACCTTTGACATTCAGG
GATGTAGCCATAGAATCTCTCAGGAGGAGTGGAAATCCCTGGACCCTGTGCAGAAAGCTTTGTACTGGGATGTG
ATGTTGGAGAACTACAGGAACCTGGTCTTCTGGGTATCCTTCCTAAATGTATGACCAAGGAATTACCACCAATA
GGGAACAGTAATACAGGAGAAAAATGCCAAACAGTGACGCTGGAAAGACATGAATGTTATGATGTTGAAAAATTT
TACTTAAGGGAAATCCAGAAAAATCTACAGGACCTTGAGTTTCAATGGAAAGATGGTGAAATAAATTATAAAGAA
GTGCCAATGACCTATAAAAAACAATCTTAATGGTAAAAGAGGTCAACATAGTCAAGAGGATGTAGAAAACAAAATGT
ATTGAAATCAGCTTACATTAAGCTTTCAGTCACGTCTGACTGAACTGCAGAAATTTCAAAGTGAAGGGAAAAAT
TATGAGTGTAAACCAATCTGAGAAGACAGTTAATAACAGTTCCCTAGTTTCCACTTCAAAGAATCTTCTCTAGT
GTCCAAACCAACATTTCTAAAAAATATGAGAAATGAGTTTTTGACAGCTGTCATTACCCACCCAACTTGAGAAAAA
CACATTAGGGAAAAACCTTATATGTGTAAAGGTGTGGCAAAGCCTTTAGAGTGTCTTCAAGTCTTATTAACCAT
CAGATGGTACATACTACAGAGAAACCTTACAAATGCAATGAATGTGGCAAAGCCTTTCATCGGGGCTCACTACTA
ACTATACATCAGATAGTCCATACAAAGGGGGAAGCCATATCAATGTGGTGTATGTGGCAAGATCTTCAGACAAAAT
TCAGATCTTGTAAATCACCGGAGAAGTCACACTGGAGAGAAACCGTACAAATGTAATGAATGTGGCAAGTCCCTT
AGTCAAAGTTATAACCTTGCAATACATCAGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAGTGTGGG
AAAACCTTCAAACAAGGCTCATGCCTCACTACATACATAATCCATACAGGAGAGAAACCATATCAATGTGAT
ATATGTGGCAAGGTCTTCAGGCAGAATCTAATCTTGTAAATCACCAGAGAATCCCACTGGAGAGAAACCATAC
AAATGCAACATATGTGGAAAGTCTTTAGTCAAAGTTCCAACCTGGCAACTCATCAGACAGTTCATAGTGAAAC
AAACCTTACAAATGTGATGAGTGTGGCAAACCTTTAAACGGAGCTCCAGCCTCACTACATCAGATAATCCAT
ACAGGAGAGAAACCATATACATGTGATGTATGCGACAAGGTCTTCAGTCAACGTTCACTTCAAGGCACAG
AGAAGTCATACTGGAGAGAAACCTTACAAATGCAATGAATGTGGCAAGGTCTTCAGTCAGACTTCACATCTTGTG
GGGCATCGGAGAATTCATACTGGAGAGAAACCTTACAAATGTGATAAATGTGGTAAAGCCTTTAAACAGGGCTCA
TTACTCACTCGACATAAGATAATTCATACCAGAGAGAAACGTTACCAATGCGGTGAATGTGGAAGGTCTTTAGT
GAAAAATTCATGCCTTGTAAGACATTTAAGAATTCATACTGGGGAGCAACCTTACAAATGTAATGTGTGGCAAG
GTCTTCAATTACAGTGGAAACCTTTCAATTACATAAGAGAATACATACGGGAGAGAAACCTTTCCAATGTAATGAA
TGTGGCACAGTCTTCAGGAACCTCATGCCTAGCACGTCTAAGAATTCATACTGGGCAGAAACCTTACAAA
TGTAATGTGTGTGGCAAGGTCTTCAATGACAGTGGAAACCTTTCAATCATAAGAGAATTCATACTGGAGAGAAG
CCGTTTCAATGTAACGAATGCGGCAAGGTTTTCAAGTACTACTCATGCCTAGCACGTCTCGGAAAATTCATACC
GGAGAGAAACCTTACAAATGTAATGATTGTGGCAAAGCCTTACTCAGCGTTCAAGCCTCACTAAACATCTGATA
ATTCATACTGGAGAGAAACCTTACAATTGTAATGAGTTTGGAGGGGCATTTATCCAAAGTTCAAAACTTGCAAGA
TATCACAGAAATCCTACTGGGGAGAAACACACAAATGTAGCCATTGTGGTAGAACTTTTAGTCATATAACAGGC
CTGACGTACCATCAGAGAAGGCATACTGGAGAGATGCCATACAAATGTATTGAATGTGGCCAGGTCTTTAATTCC
ACTTCGAACCTTGCAAGGCATCGGAGAATTCACACTGGAGAGAAACCTTACAAATGTAATGAATGTGGCAAGGTCT
TTTCGTATCAATCAACACTAGCACGTCTCGGAGTATTCTACTGGAGAGAAACCTTACGTGTGTAATGAGTGT
GGCAAAGCCTTTAGAGTGCCTTCAATCTGGTTAATCATCAGAAAAATGCATACTGGGGACAAACCTTACAAATGT
AATGAATGTGGTAAAGCTTTTATTGAAAGGTCAAAGCTGGTGTACCATCAAAGAAATCACACTGGAGAGAAGCCA
TACAAATGTATTGAATGTGGCAAGGCCTTTGGGCGGTTTTCTTGCCCTCAACAAACACCAAATGATTCTTCTGGA
GAAAAACCTTATAATGTAATGAGTGTGGCAAATCTTTTATTAGTCGCTCAGGCCTCACTAAACATCAGACAAAA
CATACTGCAGAGAGTCTTAAACAAAATTCATGTGGAAAAGCCTTTAGATGTTCTCCTAACTTCTGGTCTTTAC
CAAATTCATACTGGAGAGAAACCTTACAAATGTAATCAGTGTGGTAAAAATTTAA

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FIGURE 5596

MPYKCIIECGQVFNSTSNLARHRRRIHTGEKPYKCNECGKVFRHQSTLARHRSIHTGEKPYVCNECGKAFRVRSILV
NHQKMHTGDKPYKCNECGKAFIERSKLVYHQRNHTGEKPYKCIIECGKAFGRFSCLNKHQMIHSGEKPYKCNECGK
SFISRSGLTKHQTKHTAESLTKFNVEKPLDVLLTSGFK

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FIGURE 5597

AGCACAGCGCTGGCCGCGAGTCTGACAGGAAAGGGACGGAGCCAAGATGGCGGGCGGCCGACGGCGACGACTCGCTG
TACCCCATCGCGGTGCTCATAGACGAACTCCGCAATGAGGACGTTTCTGCTTCGCTCAACAGCATCAAGAAGCTG
TCCACCATCGCCTTGGCCCTTGGGGTTGAAAGGACCCGAAGTGAGCTTCTGCTTTTCTTACAGATACCATCTAT
GATGAAGATGAGGTCTCTGCTGGCCCTGGCAGAACAGCTGGGAACCTTCACTACCCCTGGTGGGAGGCCAGAGTAC
GTGCACTGCTTGTGCCACCGCTGGAGTCTGCTGGCCACAGTGGAGGAGACAGTGGTGGGGACAAGGCAGTGGAG
TCTTACGGGCCATCTCACACGAGCACTCGCCCTCTGACCTGGAGGCGCACTTTGTGCCGCTAGTGAAGCGGCTG
GCGGGCGGCGACTGGTTACCTCCCGCACCTCGGCCTGCGGCCTCTTCTCCGTCTGCTACCCCGAGTGTCCAGT
GCTGTGAAGGCGGAACCTTCGACAGTACTTCCGGAACCTGTGCTCAGATGACACCCCATGGTGGCGGGCGGCCGA
GCCTCCAAGCTGGGGGAGTTTGCCAAGGTGCTGGAGCTGGACAACGTCAAGAGTGAGATCATCCCATGTCTCC
AACCTGGCCTCTGACGAGCAGGACTCGGTGCGGCTGCTGGCGGTGGAGGCGTGCCTGAACATCGCCAGCTTCTG
CCCCAGGAGGATCTGGAGGCCCTGGTGATGCCCACTCTGCGCCAGGCCGCTGAAGACAAGTCTGGCGCGTCCGC
TACATGGTGGCTGACAAGTTTACAGAGCTCCAGAAAGCAGTGGGGCCTGAGATCACCAAGACAGACCTGGTCCCT
GCCTTCCAGAACCTGATGAAAGACTGTGAGGCCGAGGTGAGGGCCGCGAGCCTCCACAAAGGTCAAAGAGTTCTGT
GAAAACCTCTCAGCTGACTGTGCGGAGAATGTGATCATGTCCAGATCTTGCCCTGCATCAAGGAGCTGGTGTCC
GATGCCAACCAACATGTCAAGTCTGCCCTGGCCTCAGTCATCATGGGTCTCTCTCCCATCTTGGGCAAAGACAAC
ACCATCGAGCACCTCTTGCCCTCTTCTGGCTCAGCTGAAGGATGAGTGCCCTGAGGTACGGCTGAACATCATC
TCTAACCTGGACTGTGTGAACGAGGTGATTGGCATCCGGCAGCTGTCCAGTCCCTGCTCCCTGCCATTGTGGAG
CTGGCTGAGGACGCCAAGTGGCGGTGCGGCTGGCCATCATTGAGTACATGCCCCCTCCTGGCTGGACAGCTGGGA
GTGGAGTTCTTTGATGAGAACTTAACTCCTTGTGCATGGCCTGGCTTGTGGATCATGTATATGCCATCCGCGAG
GCAGCCACCAGCAACCTGAAGAAGCTAGTGGAAAAGTTTGGGAAGGAGTGGGCCCATGCCACAATCATCCCCAAG
GTCTTGGCCATGTCCGGAGACCCCAACTACCTGCACCGCATGACTACGCTCTTCTGCATCAATGTGCTGTCTGAG
GTCTGTGGGCAGGACATCACCAAGCACATGCTACCCACGGTTCTGCGCATGGCTGGGGACCCGGTTGCCAAT
GTCCGCTTCAATGTGGCCAAGTCTCTGCAGAAGATAGGGCCCATCCTGGACAACAGCACCTTGCAGAGTGAAGTC
AAGCCCATCCTAGAGAAGCTGACCCAGGACCAGGATGTGGACGTCAAATACTTTGCCCAGGAGGCTCTGACTGTT
CTGTCTCTCGCCTGATGCTGGAAGAGGAGCAAACTGGCCTCTGGTGTCCACCCTCCAACCCCAAGTCCCT
CTTTGGGGAGACACTGGGGGGCCTTTGGCTGTCACTCCCTGTGCATGGTCTGACCCAGGCCCTTCCCCAGCA
CGGTTCTCTCTCCCCAGCCTGGGAAGATGTCTCACTGTCCACCTCCAACGGGCTAGGGGAGCACGGGGTTGG
ACAGGACAGTGACCTTGGGAGGAAGGGGCTACTCCGCC

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FIGURE 5598

GCAAGACCTTCAGTCAAACGTCATACCTTGTGTACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTG
AAGAATGTGACAAAGCTTTCAGTTTCAAATCAAACCTTGAAAGACATAGGAAAATTCATACTGGAGAGAAACCTT
ACAAGTGTAATGAATGCAGCAGGACCTTTAGTCGGGAAGTCATCCCTTACACGCCATCGTAGACTTCATACTGGAG
AGAAACCTTATAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGATGTCATCCCTTGTATACCATCGTAGACTTC
ATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCGAACCTTGAAAGACATA
GGAGAATTCATACTGGAGAGAAACCTTACAAGTGTAATGATTGTGGCAAGACCTTCAGTCAGACATCATCCCTTG
TATACCATCGTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAAT
CAAACCTTGAAAGACATAGGATAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGACCTTTA
GTCGGAAGTCATCCCTTACACGCCATTGTAGACTTCATACTGGAGAGAAACCTTACCAGTGTAATGAGTGTGGCA
AAGCCTTTCGTGGGCAGTCAGCACTTATTTACCATCAAGCAATCCATGGTATAGGGAAACCTTTACAAATGTAATG
ATTGTCACCAAGTCTTTAGTAATGCTACAACCATTGCAAATCATTGGAGAATCCATAATGAAGAGAGATCGTACA
AGTGTAAATAGATGTGGCAAATTTTCAGACATCGTTTCATACCTTGCAAGTTCATTGGCGAACTCATAGTGGAGAGA
AACCTTACAAATGTGAAGAATGTGATGAAGCTTTCAGTTTCAAATCAAACCTTCAAAGACATAGGAGAATTCATA
CTGGAGAGAAACCTTACAGGTGTAATGAATGTGGCAAGACCTTTAGTCGGAAGTCATACCTTACATGCCATCGTA
GACTTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGACCTTCGGTCGAAATTCAGCCCTTATAA
TTCACAAGGCAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAGGCCCTTCAGTCAGAAGTCAT
CCCTTACATGCCATCTTAGACTTCATACTGGAGAGAAACCTTACAAATGTGAAGAATGTGACAAAGTTTTTCAGTC
GCAAAATCAAGCCTTGAAAAACACAGGAGAATTCATACTGGAGAGAAACCATACAAATGTAAGGTTTTGTGACAAAG
CTTTTGGGCGTGATTCACACCTGGCACAACATACTAGAATTCACACTGGAGAGAAACCTTACAAGTGTAATGAAT
GTGGCAAGAACTTCCGTCACAATTCAGCCCTTGTAATTCATAAGGCAATTCATAGTGGAGAGAAACCTTACAAGT
GTAATGAGTGTGGCAAGACCTTCCGTCACAATTCAGCCCTTGAAATTCATAAGGCAATTCATACCTGGAGAAAAAC
CTTACAAGTGTAGTGAATGTGGCAAGGTTTTTAATAGAAAAGCAAACCTTTCACGTCATCATAGACTTCATACTG
GAGAGAAACCTTACAAGTGTAATAAATGTGGTAAGGTTTTTAATCAACAAGCACACCTTGCATGTCATCATAGAA
TTCATACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGGCAAAACCTTCCGTCACAATTCAGTCCTTGTAATTC
ATAAGACAATTCATACTGGAGAGAAACCTTACAAGTGTAATGAATGTGGCAAGGTTTTTAATCGAAAAGCAAAAC
TTGCACGTCATCATAGAAATTCATACTGGAAAGAAACATTAGAAATATGAAGAATGTGACAAAGTTTACAGTTGTA
AATCAAGTCTTGAAAGACAGGAGAATTCATACTGGAGAGAAAGCTTACAAATGTAAGAGTTTGTGACAAGAATCT
TGGGCGTGATTCACACCTGGCCCAACAACTAGAAGTCACACTGGAGAGAAACCTTACAAGTGTAATGAGTGTGG
CAAAGCCTTTAGTGGGCAGTCAACACTTATTCACCATCAGGCAATCCATGGTATAGGGAACTTTACTAATGTAA
TGATTATCACAAAGTCTTCAGTAACACTACAACCGTTTTCAAATCATTGGAGAATCCATAATGAGAGATTTTGAAA
GTGTAATAAATGTGGCAAAATTTTTTCAGACATTGTTTCATACCTTGCAGTTCATCGGTGAACCTCATGCTGGAGAGAA
ACCTTACAAATGTCATGATTGTGGCAAGGTTCTTCAGTCTAGCTTCATCTTATGCAAAACAGGAGACTTCATACAG
GAGACAAACCTTACAAGTATGATGATTGCAGCAAGCCTTTACTTCACGTTACACCTAATTAGACATCAGAGAA
TCCATACTGGACAGAAAATCTTACAAATGTCATCAGTGTGGCAAGGTTCTTCAGTCTGAGATCACCCCTTAAGGAAC
ATCAGAAAATTCATTTTTGAGATGATTGTTTCAAATGCAATGAGTATAGCAAACCATCAAGCATTAATTGGCATT
AGAGTCAATTCAGCATTGACTTGAGTTTGAATTGACTTAACATTGAGTTCAAGCATTAATTGACATTAAAGTGTT
TATGTTAAGAAGATTGGGCCAGGCGGGGTGGCTCAGCCTGTAATCCCAGCACTTTGGGAGGCCAAGACCAATAG
ATCACTTGAGGTGAGGAGTTTGAGACCAGACTGGCCAACAGACATGAGTCACCTTTCCACCCCTGTATTTTGT
CTTTAATAAAAACTGTTACGGGTT

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FIGURE 5599

MSSLVYHRRRLHTGEKPYKCEECDEAFSFKSNLERHRRRIHTGEKPYKCNDGKTFSTSSLVYHRRRLHTGEKPYK
EECDEAFSFKSNLERHRIIHTGEKLYKCNECGKTFSRKSSLTRHCRRLHTGEKPYQCNECGKAFRGQSALIYHQAI
HGIGKLYKCNDCHQVFSNATTIANHWRIHNEERSYKCNRCGKFFRHRSYLAVHWRTSHGEKPYKCEECDEAFSFK
SNLQRHRRRIHTGEKPYRCNECGKTFSRKSYLTCHRRRLHTGEKPYKCNECGKTFGRNSALI IHKAIHTGEKPYCN
ECGKAFSQKSSLTCHLRLHTGEKPYKCEECDKVFSRKSSLEKHRRRIHTGEKPYCKVCDKAFGRDShLAQHTRI
TGEKPYKCNECGKNFRHNSALVIHKAIHSGEKPYKCNECGKTFRHNSALEIHKAIHTGEKPYKCECGKVFNRKA
NLSRHHRLHTGEKPYKCNKCGKVFNQAHLACHHRIHTGEKPYKCNECGKTFRHNSVLVIHKT IHTGEKPYKCNE
CGKVFNRKAKLARHHRIHTGKKH

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FIGURE 5600

AGAAACAGTG GTGCGCGGAGAGGAGAGGCCTCGGGATGCTCTCTGGCAGATGAGCTCTTAGCTGATCTCGAAGAGG
CAGCAGAAGAGGAGGAAGGAGGAAGCTATGGGGAGGAAGAAGAGGAGCCAGCGATCGAGGATGTGCAGGAGGAGA
CACAGCTGGATCTTTCCGGGGATTCACTCAAGACCATCGCCAAGCTATGGGATAGTAAGATGTTTGCTGAGATT
TGATGAAGATTGAGGAGTATATCAGCAAGCAAGCCAAAGCTTCAGAAGTGATGGGACCAGTGGAGGCCGCGCCTG
AATACCGCGTCATCGTGGATGCCAACCACTGACCGTGGAGATCGAAAACGAGCTGAACATCATCCATAAGTTCA
TCCGGGATAAGTACTCAAAGAGATTCCCTGAACTGGAGTCCTTGGTCCCCAATGCACTGGATTACATCCGCACGG
TCAAGGAGCTGGGCAACAGCCTGGACAAGTGCAAGAACAATGAGAACCTGCAGCAGATCCTCACCAATGCCACCA
TCATGGTCGTCAGCGTCACCGCTCCACCACCCAGGGGCAGCAGCTGTGCGAGGAGGAGCTGGAGCGGCTGGAGG
AGGCCGTGCGACATGGCGCTGGAGCTGAACGCCTCCAAGCACC GCATCTACGAGTATGTGGAGTCCCGGATGTCTT
TCATCGCACCCAACCTGTCCATCATTATCGGGGCATCCACGGCCGCCAAGATCATGGGTGTGGCCGGCGGCTGA
CCAACCTCTCCAAGGTGCCCGCTGCAACATCATGCTGCTCGGGGCCAGCGCAAGACGCTGTGCGGCTTCTCGT
CTACCTCAGTGCTGCCCCACACCGGCTACATCTACCACAGTGACATCGTGCAGTCCCTGCCACCGGATCTGCGGC
GGAAGCGGCCCGGCTGGTGGCCGCCAAGTGCACTGGCAGCCCGTGTGGACAGTTTCCACGAGAGCACAGAAG
GGAAGGTGGGCTACGAACTGAAGGATGAGATCGAGCGCAAATTCGACAAGTGGCAGGAGCCGCCGCCTGTGAAGC
AGGTGAAGCCGCTGCCTGCGCCCTGGATGGACAGCGGAAGAAGCGAGGCGGCCGAGGTACCGCAAGATGAAGG
AGCGGCTGGGCTGACGGAGATCCGGAAGCAGGCCAACCGTATGAGCTTCGGAGAGATCGAGGAGGACGCCTACC
AGGAGGACCTGGGATTAGCCTGGGCCACCTGGGCAAGTCGGGCAGTGGGCGTGTGCGGCAGACACAGGTAAACG
AGGCCACCAAGGCCAGGATCTCCAAGACGCTGCAGCGGACCCTGCAGAAGCAGAGCGTCGTATATGGCGGGAAGT
CCACCATCCGCGACCGCTCCTCGGGCACGGCCTCCAGCGTGGCCTTACCCCACTCCAGGGCCTGGAGATTGTGA
ACCCACAGGCGGCAGAGAAGAAGGTGGCTGAGGCCAACCAAGAAGTATTTCTCCAGCATGGCTGAGTTCCTCAAGG
TCAAGGGCGAGAAGAGTGGCCTTATGTCCACCTGAATGACTGCGTGTGTCCAAGGTGGCTTCCCACTGAAGGGAC
ACAGAGGTCCAGTCTTCTGAAGGGCTAGGATCGGGTTCTGGCAGGGAGAACCTGCCCTGCCACTGGCCCCATTG
CTGGGACTGCCAGGGAGGAGGCCTTGGAAGAGTCGGGCCTGGCTTCCCCCAGGACCGAGATCACCGCCAGTAT
GGGCTAGAGCAGGTCTTCATCATGCCTTGTCTTTTTTAAGTGAAGAAGGAGATTTTTTGAAGAAGTACAATTAA
AAGGACATTGTCAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5601

MSLADELLADLEEAAAAEEEGGSYGEEEEPAIEDVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQA
KASEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKRFPELESVPNALDYIRTVKELGNSLDKCK
NNENLQQILT NATIMVVSVTASTTQGOQLSEEEELERLEEACDMALELNASKHRIEYVESRMSFIAPNLSIIIGA
STAAKIMGVAGGLTNLSKVPACNIMLLGAQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPDLRRKAARLVAAKCT
LAARVDSFHSTEGKVG YELKDEIERKFDKWQEP PPVKQVKPLPAPLDGQRKKRGRRYRKMKERLGLTEIRKQA
NRMSFGEIEEDAYQEDLGFS LGHLGKSGSGRV RQTQVNEATKARISKTLQRTLQKQSVVYGGKSTIRDRSSGTAS
SVAFTPLQGLEIVNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST

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FIGURE 5602

GTTCTCGACTATTGCCGAAGTGAGCCGAAGTTTGTGGCCCCGCTTCCGGAGAACTCAAGCTCCCGATTGTGCCCCG
AAGGAACCCGAAGGGAGACCCCGCCTCATTCTCAGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCT
GTTCCCTTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCAGGCCCGAAGGCCCGCCCCCTTACGTACTCGGAG
CTCGGATCCCAAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTT
CCCTGCCCGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGGCGGGCGCCAGAGGA
GCAGGCGGCGCGGGGGCGCGCTGGGCGGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCG
GCCGCTCCTGCCCGGCGAGCAGCTCAGACCATGTGCGCTGAAGAATGGACGTATCTAGTGGTTCTTCTTATCTC
CATCCCCATCGGCTTCTCTTTAAGAAAGCCGGTCTGGGCTGAAGAGATGGGAGCAGCCGCTGTGGGCTGGG
GCTCACCTGTTCACCTGTGGCCCCACACTTTGCATTCTCTGGTCACCATCTCTGGGACCTGGGCCCCATTCA
GGCCCAGCCCTGCTCCTGCCACGCCCTGGCTCTGGCCTGGACTTTCTCCTATCTCCTGTTCTTCCGAGCCCTCAG
CCTCCTGGGCTGCCACTCCACGCCCTTACCAATGCCGTCCAGCTGCTGCTGACGCTGAAGCTGGTGAGCCT
GGCCAGTGAAGTCCAGGACCTGCATCTGGCCCAGAGGAAGGAAATGGCCTCAGGCTTACGCAAGGGGCCACCT
GGGCTGCTGCCGACGTGCCCTCCTGATGGAGACACTCAGCTACAGCTACTGCTACGTGGGAATCATGACAGG
CCCGTTCTTCCGCTACCGCACCTACCTGGACTGGCTGGAGCAGCCCTTCCCCGGGGCAGTGCCAGCCTGCGGCC
CCTGCTGCGCCGCGCCTGGCCGGCCCCGCTCTTCGGCCTGCTGTTCTCTGCTCTCCTCTCACCTCTTCCCGCTGGA
GGCCGTGCGCGAGGACGCTTCTACGCCCGCCCGCTGCCCGCCCGCTTCTTACATGATCCCCGCTTCTTTCGC
CTTCCGATGCGCTTCTACGTGGCCTGGATTGCCGCCGAGTGCGGCTGCATTGCCGCCGGCTTTGGGGCTACCC
CGTGGCCGCCAAAGCCCCGGGCCGGAGGCGGCCACCCTCCAATGCCACCCCCAGCAGTCCGGAGAAGGCGGC
TTCCTTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGCACAGATTCTGCGTGCGGGTGCGCGA
TGGCATGCGGTACTGGAACATGACGGTGCAGTGGTGGCTGGCGCAGTATATCTACAAGAGCGCACCTGCCCGTTC
CTATGTCCTGCGGAGCGCTGGACCATGCTGCTGAGCGCCTACTGGCACGGCCTCCACCCGGGCTACTACCTGAG
CTTCTGACCATCCCGCTGTGCTGGCTGCCGAGGGCCGGCTGGAGTCAGCCCTGCGGGGGCGGCTGAGCCCAGG
GGGCCAGAAGGCCTGGGACTGGGTGCACTGGTTCTGAAGATGCGCGCCTATGACTACATGTGCATGGGCTTCGT
GCTGCTCTCCTTGGCCGACACCTTTCGGTACTGGGCTCCATCTACTTCTGTATCCACTTCTGGCCCTGGCAGC
CCTGGGGCTGGGGCTGGCTTTAGGTGGGGCAGCCCCAGCCGGCGGAAGGCAGCATCCAGCCCACAGCCTTGC
CCCAGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCAGCTGGTCCCGGAATTCTGTGAACCA
GGCTGCTGTCTCCTCCCCAGAAAGAGTCTTACCTTGGAGAGGGTCTTGAGAGAATTCTCTTCCCCAGCTAA
ATACCCTGCCTGCAACTGAAGCAGACCCGGGGGTGCTCCTCCCTGCCCTCTGCCAGAGGCCACCTCCACTCCTAC
AAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCTGCTCCAGCTTCTGGGTATCCAGAGACACTGCATT
CCCCAAAACGGAAGGGGCCCTGGGCAGTGGGTTTTGGGCAAATTCCTTTCTTTGCATCCACAATGTGGGGTCG
GAGCTTGGGGGAGGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTTTCGCTCCACTTTAGCTCATCGACCA
ATATTGCAGACTTGAAGGAAGCATAAGCTTCCATTTACAAAAGGGGAACTGAGGTGCGGGTGCGCGGGCCTG
GGGACGGCCGTCCCATGGCTTCCATCTGAGCCACCTCGGGACCCAGCGCTCCTGGCGCCCTCTTCTCATCGCTT
GGCCTATGACAGGTACCGTGTGTAAATCTTTCCCAATAAAGTGTGCACAAAG

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FIGURE 5603

CCCGCGCAGGCGCAGACGGGGAAGCGGAGCCAAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGAAAACTTATGT
GACCCCGCGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAA
CAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAACCTGCTGACGCTTGA
TGAGAAGGACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGA
GGGCAAGATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGT
CTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAA
GCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAGCACATCGACTTCTCTCTGCGCTCTCC
CTACGGGGGTGGCCGCCCGGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGAGA
CGACGAGGAGGAGGATTAAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCGTTTTCTGCCAAATAAACAG
GATCAGCGCTTTA

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FIGURE 5604

MPVARSWVCRKTYVTPRRPFEKSRLDQELKLIGEYGLRNKREVVRVKFTLAKIRKAARELLTLDEKDPRRLFEGN
ALLRRLVRIGVLDEGKMKLDYILGLKIEDFLERRLQTQVFKLGLAKSIHHARVLIRQRHIRVRKQVNVNIPSFIVR
LDSQKHIDFSLRSPYGGGRPGRVKRKNAKKGQGGAGAGDDEED

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FIGURE 5605

CCGAAGGGAGACCCCGCCTCATTCTACGGCGAGCTCCAGACCCCGCCTCCTTTCCGGAGCCCGTCTGTTCCCC
TTCGGGTCCAAAGCTTTTGGCTCCTCCTTGTTCCGAGCCCGAAGGCCCGCCCTTCACGTACTCGGAGCTCGGAT
CCCAGTGTGGACCTGGACTCGAATCCCGTTGCCGACTCGCGCTCTCGGCTTCTGCTCCGGGGCTTCTTCCCTGCC
CGCCCGGGGCCCTGACCGTGGCTTCTTCCCCGGCCTGATCTGCGCAGCCCGGCGGGCGCCCAGAAGGAGCAGGCG
GCGCGGGGGCGCGCTGGGCGGGGAGGCGTGGCCGGAGCTGCGGCGGCAAGCGGGCTGGGACTGCTCGGCCGCCT
CCTGCCCCGGCGAGCAGCTCAGGTCCTGGGCTGAAGAGATGGGGAGCAGCCGCTGTGGGCCTGGGGCTCACCTGT
TCACCTGTGGCCCCCACACTTTGCATTCTCTGGTCACCATCCTCGGGACCTGGGCCCTCATTACAGGCCAGCCCT
G

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FIGURE 5606

LAPPCSEPEGPPLHVLGARIPVWTWTRIPLPTRALGFCSGASSLPARGPDRGFFPGLICAARRAPRRSRRRGGAL
GGGGVAGAAAASGLGLLGRLLPGEQLRSWAEEMGSSRCGPGAHPVHLWPPHFAFSGHHPRDLGPHSGPA

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FIGURE 5607

AGGCGCAGACGGGGAAGCGGAGCCAAACATGCCAGTGGCCCGGAGCTGGGTTTGTGCGCAAACTTATGTGACCCCG
CGGAGACCCCTTCGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTGATCGGCGAGTATGGGCTCCGGAACAAACGT
GAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATCCGCAAGGCCGCCCGGGAAGTGTGACGCTTGATGAGAAG
GACCCACGGCGTCTGTTTGAAGGCAACGCCCTGCTGCGGCGGCTGGTCCGCATTGGGGTGCTGGATGAGGGCAAG
ATGAAGCTGGATTACATCCTGGGCCTGAAGATAGAGGATTTCTTAGAGAGACGCCTGCAGACCCAGGTCTTCAAG
CTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATCCGCCAGCGCCATATCAGGGTCCGCAAGCAGGTG
GTGAACATCCCCTCCTTCATTGGCCGCGTGAAGAGGAAGAATGCCAAGAAGGGCCAGGGTGGGGCTGGGGCTGGA
GACGACGAGGAGGAGGATTAAGTCCACCTGTCCCTCCTGGGCTGCTGGATTGTCTCG

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FIGURE 5608

GGCACGAGGCTCAAGATTCACAGCATCTCAGACGCAGCCTAGGTTCCCATGGACTTGTCTATAAGACAAAAGAGGA
CAGCTGTGCTGAGGGGGCAGGGTCTGCAGCCTCCTGGCTGTGCCAGGACCACACCTACCAAGGCCGCACCAGGAT
GTCGGACACCGAGGAGCAGGAATATGAGGAGGAGCAGCCGGAAGAGGAGGCTGCGGAGGAGGAGGAGGAAGAAGA
GGAACGCCCCAAAACCAAGCCGCCCGTGGTGCCTCCTTTTGATCCCGCCAAAGATCCCAGAAGGGGAGCGCGTTGA
CTTCGATGACATCCACCGCAAGCGCATGGAGAAAGACCTGCTGGAGCTGCAGACACTCATCGATGTACATTTTGA
GCAGCGGAAGAAGGAGGAAGAGGAGCTGGTTGCCTTGAAGGAGCGCATTGAGCGGCGCCGGTCAGAGAGAGCCGA
GCAACAGCGCTTCAGAACTGAGAAGGAACGCGAACGTGAGGCTAAGCTGGCGGAGGAGAAGATGAGGAAGGAAGA
GGAAGAGGCCAAGAAGCGGGCAGAGGATGATGCCAAGAAAAAGAAGGTGCTGTCCAACATGGGGGCCCCATTTTGG
CGGCTACCTGGTCAAGGCAGAACAGAAGCGTGGTAAGCGGCAGACGGGGCGGGAGATGAAGGTGCGCATCCTCTC
CGAGCGTAAGAAGCCTCTGGACATTGACTACATGGGGGAGGAACAGCTCCGGGAGAAAGCCCAGGAGCTGTCGGA
CTGGATCCACCAGCTGGAGTCTGAGAAGTTTCGACCTGATGGCGAAGCTGAAACAGCAGAAATATGAGATCAACGT
GCTGTACAACCGCATCAGCCACGCCCAGAAGTTCCGGAAGGGGGCAGGGAAGGGCCGCGTTGGAGGCCGCTGGAA
GTGAGGATGCCGCCCCGGACAGTGGCACCTGGGAAGCCTGGGAGTGTTTGTCCCATCGGTAGCTTGAAATAAACG
CTCCCCCTCAGACACTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5609

MSDTEEQYEEEEQPEEEEAAAAEEEEEEEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLELQTLIDVHF
EQRKKEEEEELVALKERIERRRSERAEQQRFRTKEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAFH
GGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEEQLEKAQELSDWIHQLESEKFDLMAKLKQQKYEIN
VLYNRISHAQKFRKGAGKGRVGGRWK

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FIGURE 5610A

CGCCCAGCTAATTTTTGTATTTTTGGTAGAGACAGGGTTTCGCCATGTTGCCCAGGCTGGTCTTGAACCTTCTGAC
CTCAAGTGATATGCCTGCCTCAGCCTCCCCAAGGGGTACCTCCCCACAGTCCTGGAGCAGACTGTGGCCCCCTCAGG
GCCTTGAGTGGCACGCTGGTGGGGCAGCTCTTGTCTTGGAGCCGTGAGGCACCGTGTGAAAGTTTGGAGGAGGGA
GGCAGGAGGTGAGGTTGGAAGTTGAGCAAGGTTCCAGGAGTCAGCCGGAGCTGGGGCAGCATACGGGGTTGCAAG
TGAAGCCGCTGAGAGGCAAAAAGGGATGAGTGTTAGCTGCTGTGGGATTGGGAAGCGCAGGAGCTTCAGGACCAGC
TTGTCTTGGGGGTGGTAAGGAGCCTAGGATGGGATGGTTGGGTGTTAGCAGGGTGGAGGAGGCCCTGGTGTGGGCC
CTTGTCTTGCCTCACCTGTCTCTGCCCTTTCCCTTCCCTGGACAGGGGTCTCTGCAGTTCCCAGAAAACCCAG
TGCCCGGTGCAGAGAAGAGGGTGGAGCCTTGCCGCCCTTGCCCCCGCCTCCGACCCGAGCCCCACCCGCCTG
TGCTTGCTCCAGGTACCCAGTGTGGCCTGCGAGATTCTGACCTCAGATGTGCCCCAGATCAATGATGCCCTG
GGTGCCGATGAGTCCCTTCTGAACCGGCTCTACGGCTTCTGACAGACACCGGCAGCCTCAACCCACTGCTGGCC
AGCTTCTTCAGCAAGGTCATGGGCATCCTCATCAACCGCAAGACAGACCAGCTCGTGTCTTTCTTCGGAAGAAG
GATGACTTCGTGGACCTGCTGCTGCAGCACATTGGCACCTCGGCCATCATGGACCTCCTGCTGCGCCTGCTCACC
TGTGTGGAGCGCCCTCAGCTGAGGCAGGATGTTGTCAATTGGCTCAACGAGGAGAAGATCGTCCAGCGGCTGATT
GAGCAGATCCACCGTCAAGGATGAGAATCAACATTCCAACGCATCCCAGTCCCTGTGTGACATCATCCGCCTG
AGCCGGGAGCAGATGATCAAGTCCAGGACAGCCCAGAGCCTGACCAACTGCTGGCCACCCTGGAGAAGCAGGAG
ACGATTGAGCAGCTCTTAAGCAACATGTTGAGGGGGAGCAGAGCCAGTCTGTATCGTCAGTGGGATCCAGGTG
CTGCTGACCTGCTGGAGCCCAGGAGGCCGAGGTCCGAGTCCGTGACCGTGAACAGCTTCTTCAGCAGTGTGGAT
GGGCAGCTGGAGTCTTGGCCAGGGGGCCCTGGAAAGCACTGTGTCCAGTGTGGGCGCCTTGACGCCCCACGC
CCGCGGCTCAGTGTCTTCCACCAGCTCCTGCTGGAGCCTCCCAAGCTGGAGCCGCTACAGATGACATGGGGCATG
CTGGTCCGCTCTGGGCAACACGCGGCTGCACGTGGTCAAGCTCCTGGCCAGTGGCCTGAGCGCCAATGATGCA
GCCCTGACGCACGAGCTCCTGGCACTGGACGTGCCAACACCATGCTGGACCTCTTCTTCCATTATGTCTTCAAC
AATTTCTTGATGCCAAGTAGAGGGATGCGTGAGCACCATGCTGAGCTTGGGGCCACCTCCTGACAGCAGCCCT
GAGACGCCCATCCAAACCCTGTTGTGAAACATCTGCTGCAGCAGTGGCGCCTGGTGGAGCGGATCCTGACGTCC
TGGGAGGAGAACGACCGTGTACAGTGTGCGGGAGGCCCTCGGAAAGGCTACATGGGTACCTGACAAGAGTGGCC
GGTGCCCTGGTGCAGAACACGGAGAAGGGGGCCCAATGCAGAGCAGCTGCGGCAGCTGCTGAAGGAGCTGCCCAGC
GAGCAGCAGGAGCAGTGGGAAGCCTTCGTATCGGGGGCCCTGGCGGAGACCAACAAGAAGAACATGGTGGACCTG
GTGAACACCCACCACCTACACTCCTCCAGTGACGATGAGGACGACCGGCTCAAGGAGTTCAACTCCCTGAGGAG
GCTGTGCTGCAGCAGGCCTTCATGGACTTCCAGATGCAGCGCATGACCTCTGCCTTCATTGACCACTTCGGCTTC
AATGATGAGGAGTTTGGGAGCAGGAGGAGAGTGTGAACGCACCTTTTGACAAGACAGCAACATCACCTTCTCC
CTCAATGCTGACGATGAGAACCCCAACGCCAACTACTTGAGATATGCTACAAGGACCGCATCCAGCAGTTTGAT
GATGATGAGGAAGAGGAGGACGAGGAAGAGGCCAGGGCTCAGGGGAGTCTGATGGAGAAGATGGCGCCTGGCAG
GGCAGCCAGCTGGCCAGGGGGGCCCTGCTGGCCAGCCACCTGGTGTCCGAGTGGAGGCAGCAGACAGTGAAG
GACGAAGAAGAGGAGGACGAGGAGGAGGAGGAAGACGAGGAGGGCATTGGCTGTGCAGCCCGTGGAGGGGCCACC
CCTCTGTCTACCCAGCCCTGGCCCTCAGCCTCCAGGCCCCAGCTGGACAGCCACCTTTGACCCAGTGCTTACA
GATGCCCCGACCAGCCCCGAGTCTCCGGGGAGGAAGAGCTGCACACTGGGCCTCCAGCCCCACAGGGGGCCCTC
AGTGTGCCCCAGGGCCTCCCACTCAGAGCCTGGCCAGCCCTCCTGCCCGTACGCCCCTGCAGCTCAGGTCTCAG
GACCCACACCCCCCTCAGCACCTCAGGAAGCCACAGAAGGCAGCAAAGTCACGGAGCCCTCAGCCCTTGCCAG
GCCTTGTTAGCATCGGGGACCTTCAGGCCACCTTCCACGGGATCCGTTCTGCCCCCAGCTCCTCGGACAGTGCA
ACCAGAGACCCCTCTACCTCTGTCCAGCCTCCGGGGCCACCAGCCCCCCCAGACCACAGAAGGGGAGAAGAGC
CCAGAGCCCTTGGGGCTTCCCCAAAGCCAGAGTGCCAGGCCCTCACGCCTCCTCCGATACCCAATGGCTCTGCC
CCGGAAGGGCTGCATCCTCAGGCTCCCAATAGCTGCTGCTGGTGCAGGAGCGGCGGCCAAATCTTCCGTCTCCCG
TGGATCTCCCGGGGTGGGGCAGGGCGGGTCCCACGATGGCCCCCATTGCCCTCATCACCCTGACACCCCCACAT
TCTCTCTCTGGACCCCCAGGAGGCTGGTGCCAGGGAGACAGGCCCAACCCACCCCATTTGCACTGAGAAGAGA
AGTTTTGGAGCGTTGCCCTCTAGAATAAAGATACAGAGAGTCAAATAGAGAGAATGGAGAGAGAGAAAACATATAT
TATATATTATATAGAGAGAGGGAGGAGAGCGAGAGAGAGTGAAGACACCGAACTGGGCTGGCGGCTCCAAAGCAC
AGCCTTCCCTGTTCCGTCCAGCGGGAGCTGGTGTAGGGGTCCCAAGGTTGCCACCCACGTGCCCAGCTGTCCC
ACGCTGCAGCGCAGACGGCCACGCCACACCCGGCCTTTTAGCTCAGGTCCACCATGGGGGACGGGCCAGCGTGG
GTGGGGGTGCCAGAGGGTCCCAGTGGGGGCCGTGCCCTTTGCCAGACCCCTGCACTTTCAACCAGGCCAGTCCGG

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FIGURE 5610B

CTCTGGGGAGCAGGGGCCTCCCCGGCAACAGCCCCAGGGGCCTTGAGGGTCTGAGGTCCCAGCCCTGTTGCCAAG
TGACCTTGTCCCCAGCTCCCTCCTCCCAGGCTGGTGTGAGTGTGCGTGCGTTTGTGCCGAGCTTCTATTTCATAT
TGCAAATATAAATAAAGGAAGGCAGTTTACG

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FIGURE 5611

MGILINRKTDQLVSFLRKKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPS
KDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLE
PRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGM LAPPLG
NTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQN
PVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTTEKGPNAEQRLRQLLKELPSEQQEQW
EAFVSGPLAETNKKNMVDLVNTHHLHSSDDEDDRLKEFNFP EEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFG
EQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEDEEEEAQSGSGESDGEDGAWQGSQ LAR
GARLGQPPGVRSGGSTDSEDEEEDEEEDEEEDEEGIGCAARGGATPLSYSPSGPQPPGPSWTATFDVPVTDAPTSP
RVSGEEELHTGPPAPQGPLSVPOGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIG
DLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQAQALTTPPPIPNGSAPEGPAS
SGSQ

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FIGURE 5612

GCGGCGCCAGCAGAGTCAGGTGCGGACGACTTTGTCTGTAGGAGCAGCGGCGGCTTGAGGACCCGGGGAGACCC
TCAAGAATCGACCCATCAGGACGCCAGAGCTGCTTCAGCGGTGACCACCTTCTCCCTCTAACACATTCTTCCCTT
CTTCACAAACGGCCCATGTCAGACGAAGGCTCAAGGGGAGCCGCCTGCCCTGGCGCTGCCCCGGCCTCCCAG
GGTTGCTCTTCAGGGGGCGGCGGCGGCGGCGGCGGCTCCTCGGCTGGGGGCTCGGGCAATTCCCGGCCCCCA
CGCAACCTCCAAGGCTTGCTGCAGATGGCCATCACCGCGGGCTCTGAAGAGCCAGACCTCCTCCAGAACCGATG
AGTGAGGAGAGGCGTCAGTGGCTGCAGGAGGCCATGTCGGCTGCCTTCCGAGGCCAGCGGGAGGAGGTGGAGCAG
ATGAAGAGCTGCCTCCGAGTGCTGTCACAGCCCATGCCCCCACTGCTGGGGAGGCCAGCAGGCGGCCGACCAG
CAAGAGCGAGAGGGGGCCCTGGAGCTGCTGGCCGACCTGTGTGAGAACATGGACAATGCCGCACTTCTGCCAG
CTGTCTGGCATGCACCTGCTGGTGGGCGGCTACCTGGAGGCGGGGGCTGCGGGACTGCGGTGGCGGGCGGCACAG
CTCATCGGCACGTGCAGTCAGAACGTGGCAGCCATCCAGGAGCAGGTGCTGGGCCCTGGGTGCCCTGCGTAAGCTG
CTGCGGCTGCTGGACCGCGACGCCTGCGACACGGTGCGCGTCAAGGCCCTCTTCGCCATCTCCTGTCTGGTCCGA
GAGCAGGAGGCTGGGCTGCTGCAGTTCTTCCGCCTGGACGGCTTCTCTGTGTTGATGAGGGCCATGCAGCAGCAG
GTGCAGAAAGCTCAAGGTCAAATCAGCATTCTGCTGCAGAACCTGCTGGTGGGCCACCCTGAACACAAAGGGACC
CTGTGCTCCATGGGGATGGTCCAGCAGCTGGTGGCCCTGGTGGGACAGAGCACAGCCCCCTCCACGAGCACGTG
CTTGAGCCCTGTGCAGCCTGGTGACAGACTTTCGCGAGGGTGTGCGCGAGTGTGGGAGCCGGAACCTGGGCCTG
GAGGAGCTCCTCCGCCACCGCTGTGAGCTGCTGCAGCAGCATGAGGAGTACCAGGAGGAGCTGGAGTTCTGTGAA
AAGCTGCTACAGACCTGTTTCTCCAGCCCAGCGGACGACAGCATGGATCGGTGAAACCAGGTGGCTTCTTGCCCC
CTTCTCCGTGGGAACCCAGGCCTCTTGCTTCCCTCCCCACCTACAAGGCCCTCTCCAAGGGATCGCAGGGCCT
AGGTGCCTGGACCCAGGGTGTGCCAGCCCGTCTCTGTGAGTCCCTGGAAGGGGCGCTGAGAAAGGCACCAGCTC
CTTGACCCCACTCCCATGCTCTCACTCTCATCCCCGTTCTCTTGTCACACAGCTCTTCCAATAAAGGTGTTT
CTCTTCTCCTTCTC

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FIGURE 5613

CTCTTTCCGTCTCAGGTCGCCGCTGCGAAGGGAGCCGCCGCCATGTCTGCGCATCTGCAATGGATGGTCGTGCGG
AACTGCTCCAGTTTCCTGATCAAGAGGAATAAGCAGACCTACAGCACTGAGCCCAATAACTTGAAGGCCCGCAAT
TCCTTCCGCTACAACGGACTGATTACCCGCAAGACTGTGGGCGTGGAGCCGGCAGCCGACGGCAAAGGTGTCGTG
GTGGTCATTAAAGCGGAGATCCGGCCAGCGGAAGCCTGCCACCTCCTATGTGCGGACCACCATCAACAAGAATGCT
CGCGCCACGCTCAGCAGCATCAGACACATGATCCGCAAGAACAAGTACCGCCCCGACCTGCGCATGGCAGCCATC
CGCAGGGCCAGCGCCATCCTGCGCAGCCAGAAGCCTGTGATGGTGAAGAGGAAGCGGACCCGCCCCACCAAGAGC
TCCTTGAGCCCCCTGCCCCAGAGCAATAAAGTCAGCTGGCTTTCTCAAAA

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FIGURE 5614

MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSEFRYNGLIHRKTVGVPEADGKGVVVVIKRRSGQRKPAT
SYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPVMMVKRKRTRPTKSS

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FIGURE 5615

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAACCTACCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAGGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCCCAGCGGCAGGGCCGAAGCCGGTCGGGCCCTGGCCAGTGGCACTGAAGCTTCCCTCCACCG
ACCTTGGGGCCCCAGGGGGCCCCGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCC
TCCTTCCACCGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACCTGTCTCTAAGTTATTTAAATTATGGCTGG
GGTCGGGGAGGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

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FIGURE 5616

MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFNPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLL GKDFPASPP
KGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARL
LTEIHGGAGGPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALLRRL

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FIGURE 5617

AATTCTTTCATTTTCAGAGTTGAGCAAACCTGTGTCTCAAGGAGGTGTGCGCTGCAGGTAGCTGATGTGGCCAGGAT
TTGAACCCACATTTTATATTCTTTGCCATTAGATTCCATTTTTCTTATCTCTTATTTCTCAGCGCCAGGTCTCTT
TTTGTCTTCTGGGCCTCTTTCTTCCTTGGCCTCCTGCCTCCCTGTCTTCCCATGTTCTTGTATCTGCTGCTGCCTG
TGTTTTTCTCATTGTGTCTCTGCCTAGCTCCCTCTGCCAGGTTTCTATGTGTCTCTTTCTGTCAGAACTGTCTT
CTATTTCTTCTCAGTCCCTTCTCTGCATTTGTTACATCATCTCTTCATCTTAATGTATTAGGCTGGGGCTGTTT
TGGGACTCCAGAGAGTTACTTTTAACTAGCTACATCTGTCTTCAGGTGCCTGGCTTTCTGGCCTGAGGTGGAAG
CAGAGGCCAGCCTCTCTCCGTCATCCCTATCTCECCTGGGCTTACATCATGGCGGGGCTTTGAAAATCTCCCTCT
GTGGCTTCTTGGAGCCGCATAGATGGGTGATCAGAGCTGGCTCTGGAACCAGGCTGCTCCAGGAGTAAGGAGCCC
AGTCTTTGCATGCAGTGTTGAAAAAGGTAATGTCCCTCTTGTGCTGAGCGAGCACCTGGCACACAGCAGGGACCC
AGGCAGTGGGGCTGTAGGTTCTTATCTCTCCTGAGCCTTGGGCTTCCGCTATCCTTGGGACGTCGTGGTCTTCT
GGCTTCCCCGGTCTTCTCCTGCCGCCCTGGATGCGGTGACCTGCCAGCACCTGCCGCAGCCTTCGTCCGGGAGTCG
CCCCATCTCTCCACGCAATCGGCCCTGTGCCCTTGTGCTGCAGCCGGGCACCATGTCGACCTCGTCCCTTGAGG
CGCCAGATGAAGAACATCGTCCACAACCTACTCAGAGGCGGAGATCAAGGTTTCGAGAGGCCACAGCAATGACCCC
TGGGGCCCATCCAGCTCCCTCATGTCTCAGAGATTGCCGACCTCACCTACAACGTTGTGCGCTTCTCGGAGATCATG
AGCATGATCTGGAAGCGGCTCAATGACCATGGCAAGAACTGGCGTCACGTTTACAAGGCCATGACGCTGATGGAG
TACCTCATCAAGACCGGCTCGGAGCGCGTGTGCGCAGCAGTGAAGGAGAACATGTACGCCGTGCAGACGCTGAAG
GACTTCCAGTACGTGGACCGCGACGGCAAGGACCAGGGCGTGAACGTGCGTGAGAAAGCTAAGCAGCTGGTGGCC
CTGCTGCGCGACGAGGACC GGCTGCGGGAAGAGCGGGCGCACGCGCTCAAGACCAAGGAAAAGCTGGCACAGACC
GCCACGGCCTCATCAGCAGCTGTGGGCTCAGGCCCCCTCCCGAGGCGGAGCAGGCGTGGCCGAGAGCAGCGGG
GAGGAGGAGCTGCAGCTCCAGCTGGCCCTGGCCATGAGCAAGGAGGAGGCCGACCAGGAGGAGCGGATCCGTCGC
GGGATGACCTGCGGCTGCAGATGGCAATCGAGGAGAGCAAGAGGGAGACTGGGGGCAAGGAGGAGTCGTCCCTC
ATGGACCTTGCTGACGTCTTACGGCCCCAGCTCCTGCCCGACCACAGACCCCTGGGGGGGCCAGCACCCTAG
GCTGCTGCCGTCCCCACGGCTGCCCCACCTCGGACCCCTGGGGCGGGCCCCCTGTCCCTCCAGCTGCTGATCCC
TGGGGAGGTCCAGCCCCACGCCGGCCTCTGGGGACCCCTGGAGGCCTGCTGCCCTGCAGGACCCCTCAGTTGAC
CCTTGGGGTGGGACCCAGCCCCGAGCTGGGGAGGGGGCCACGCCTGATCCATGGGGAAGTTCCGATGGTGGG
GTCCCCGTGAGTGGGCCCCAGCCTCCGATCCCTGGACACCGGCCCGGCCCTTCTCAGATCCCTGGGGAGGGTCA
CCTGCCAAGCCAGCACCAATGGCACAACAGCAGCCGGGGGATTTCGACACGGAGCCCGACGAGTTCTCTGACTTT
GACCGACTCCGCACGGCACTGCCGACCTCCGGGAGCAGCGCAGGAGAGCTGGAGCTGCTGGCAGGAGAGGTGCCG
GCCCCAAGCCCTGGGGCGTTTGACATGAGTGGGGTCAGGGGATCTCTGGCTGAGGCTGTGGGCAGCCCCCACCT
GCAGCCACACCAACTCCACGCCCCCACC CGGAAGACGCCGGAGTCAATCCTGGGGCCCAATGCAGCCCCCTCGTC
GACCTGGACTCGCTGGTGAGCCGGCCGGGGCCCCACGCCGCTGGAGCCAAGGCCTCCAACCCCTTCCTGCCAGGC
GGAGGGCCAGCCACTGGCCCTTCGTCACCAACCCCTTCCAGCCCGCGCCTCCCGCGACGCTCACCCCTGAACCAG
CTCCGTCTCAGTCTGTGCTCCCGTCCCTGGAGCGCCACCCACGTACATCTCTCCCTTGGCGGGGGCCCTGGC
CTGCCCCCATGATGCCCCGGGGCCCCCGGCCCAACACTAATCCCTTCTCCTATAATCCAGGGCGGAAGGG
GGCCTGGCTCCATCCGGCTGCCCCATTCCGGCTCCCTGGGAGATCAGTGTTGTGAGTGCAATGTGAAATGG

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FIGURE 5618

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVFSEIMSMIWKRLNDHGKNWRHVY
KAMTLMEYLIKTGSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLVALLRDEDRLREERAHALKT
KEKLAQTATASSAAVGSPPPPEAEQAWPQSSGEEELQLQLALAMSKEEADQEERIRRGDDLRLQMAIEESKRETG
GKEESSLMDLADVFTAPAPAPTTDPWGGPAPMAAAVPTAAPTSDPWGGPPVPPAADPWGGPAPTPASGDPWRPAA
PAGPSVDPWGGTPAPAAGEGPTDPWGS SDGGVPVSGPSASDPWTPAPAFSDPWGGSPAKPSTNGTTAAGGFDTE
PDEFSDFDRLRTALPTSGSSAGELELLAGEVPARSPGAFDMSGVIRGSLAEAVGSPPPAATPTPTPTTRKTPESFL
GPNAALVDLDSLVSRPGPTPPGAKASNPFLPGGGPATGPSVTNPFQAPPATLTLNQLRLSPVPPVPGAPPTYIS
PLGGGPGLPPMMPPGPPAPNTNPFLL

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FIGURE 5619

GAGGCGAAAGCTGCACAGGGCCCTACGCGGCCGCTCAGC**ATGT**CGGACTTCGACGAGTTCGAGCGGCAGCTCAA
CGAGAATAAACAAAGAGCGGGACAAGGAGAACCGGCATCGGAAGCGCAGCCACAGCCGCTCTCGGAGCCGGGACCG
CAAACGCCGGAGCCGGAGCCGCGACCGGCGCAACCGGGACCAGCGGAGCGCCTCCCGGGACAGGCGACGACGCAG
CAAACCTTTGACCAGAGGCGCTAAAGAGGAGCACGGTGGACTGATTTCGTTCCCCCGCCACGAGAAGAAGAAGAA
GGTCCGTAAATACTGGGACGTGCCACCCCCAGGCTTTGAGCACATCACCCCAATGCAGTACAAGGCCATGCAAGC
TGCGGGTCAGATTCCAGCCACTGCTCTTCTCCCCACCATGACCCCTGACGGTCTGGCTGTGACCCCAACGCCGGT
GCCCGTGGTCGGGAGCCAGATGACCAGACAAGCCCCGGCGCCTCTACGTGGGCAACATCCCTTTGGCATCACTGA
GGAGGCCATGATGGATTCTTCAACGCCCAGATGCGCCTGGGGGGGTGACCCAGGCCCTGGCAACCCAGTGT
GGCTGTGCAGATTAAACAGGACAAGAATTTTGCCTTTTGGAGTTCGCTCAGTGGACGAGACTACCCAGGCTAT
GGCCTTTGATGGCATCATCTTCCAGGGCCAGTCACTAAAGATCCGCAGGCCTCACGACTACCAGCCGCTTCCCTGG
CATGTCAGAGAACCCCTCCGTCTATGTGCCTGGGGTGTGTCCACTGTGGTCCCGACTCTGCCCACAAGCTGTT
CATCGGGGGCTTACCCAACTACCTGAACGATGACCAGGTCAAAGAGCTGCTGACATCCTTTGGGCCCTCAAGGC
CTTCAACCTGGTCAAGGACAGTGCCACGGGGCTCTCCAAGGGCTACGCCTTCTGTGAGTACGTGGACATCAACGT
CACGGATCAGGCCATTGCGGGGCTGAACGGCATGCAGCTGGGGGATAAGAAGCTGCTGGTCCAGAGGGCGAGTGT
GGGAGCCAAGAAIGCCACGCTGGTGAGCCCCCGAGCACCATCAATCAGACGCCTGTGACCCCTGCAAGTGCCGGG
CTTGATGAGCTCCAGGTGCAGATGGGCGGCCACCCGACTGAGGTCTGTGCCTCATGAACATGGTGTGCTGCCTGA
GGAGCTGCTGGACGACGAGGAGTATGAGGAGATCGTGGAGGATGTGCGGGACGAGTGCAGCAAGTACGGGCTTGT
CAAGTCCATCGAGATCCCCCGCCTGTGGACGGCGTCGAGGTGCCCGCTGCGGAAAGATCTTTGTGGAGTTCAC
CTCTGTGTTTACTGCCAGAAAGCCATGCAGGGCCTGACGGGCCGCAAGTTCGCCAACAGAGTGGTTGTACAAA
ATACTGTGACCCCGACTCTTATCACCGCCGGGACTTCTGGT**TAG**AGGCGGCTGGGGGAGGGTGGGGGCAGGGCTGG
CTGGGGGCTTCTCCCCACTCCCGCCCCCCCCCTTATCCCCCTCTGAAGACGATGGGCAGAGGAGTGACAGCCGCA
GACACACGACAGCCGGCAGCAACTGGAATGGCAGCAATTAAGGGTGGGGAGCGGGGTGGGGGGTGGGGGGT
AGGGCAGGGAGGGGACTGGGGAAGTGCGCACACAGCCCCACACAGACAACACGCACG

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FIGURE 5620

MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSDRKRRSRSDRRNRDQRSASRDRRRRSKPLTRGAKEEHGG
LIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTPDGLAVTPTPVPVVGSMTRQARR
LYVGNIPFGITEEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDNFAFLEFRSVDETTQAMAFDGIIFQGQSLK
IRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSK
GYAFCEYVDINVDQAIAGLNGMQLGDKKLLVQRASVGAKNATLVSPSTINQTPVTLQVPLMSSQVQMGGHPT
EVLCLMNMVLPEELLDDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLT
GRKFANRVVVTKYCDPDSYHRRDFW

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FIGURE 5621

GGGAAGGCATTTGAGCCATTTTGGGGTGTATAGATGTAGTAAGACGATGGGTTCCGTAGTGGGGAGAGGTGACTA
GACTTCGAGGTGCTAAGTGTAGGAACAGGATGGAAAAGCCCTAGTGAAATGTGGGGAATTGGGTTAGTGGGGCTC
TGGGGAGGTACCTAGAGAGGAAGTGAAGGAGGCCACGGAATATGAAGATGGGGAGGCCCTGCGGCATGTAGTGGG
GACGGAGGGCCAGGAGGCCGATACGGGGGCCGGTGGGGGGGTAGGGGGCGGCAAAGGGAGGGGAAGTAAACTGAA
CTGGGGCTGGGCAACAGGAAAAAAGAAGAAACCACAGATTAGAGAAATCTCGGCGGTGAGGAGGCCCGGGGTCTA
AGATGTAAAAGAGGTAAACAGATTTAGGGATTGATTGTCTGCTGGGGTGGGTTGAGAGGAGAAAAGGGAAGAAAAG
TCGGGGGACTACGTCTCAGACCTGACCTGAGTGGTGAGAGGTGGACCCAGGAGGAGTGGCAGGTGGTGGCGGGG
TTTTGCAGAGCTCAGTTGGAGGCCCTCTCCGAGGCAGCTTGATGGAACGTGGGAGAGCCGGGCTGGAGTCACAGT
TTTTATTTTGTAGGGAGGTAGTCAGTGGCGCACAAAGGGTAACAAGCAGTGATAGTGGGGATGCTTTCCATTTT
AGGAAACTTTTCTTAAAAGGAAGTGGCAATTTTAACTAATCTCCCCTCCGCCGCTCCCAGCTGCCACTCCAGATG

CTGCTGCTGCCGCCGCGGCCACCCACCCCTCGGTCTCTCTCCGGAGGCCATGGACCCACCGCCCCCAAGGCT
CCCCCTTTCCCAAGGCGGAAGGCCCCCTCTCCACTCCTTCCCTCGGCGGCGGGGCCCCGACCCCGCGGCTGGGC
CGCCACCTCCTCATCGACGCCAATGGGGTCCCCTACACATACAGGTGCAGCTGGAGGAGGAGCCCCGGGGCCCCG
CCCCAGCGCGAGGCGCCCCAGGAGAGCCCGGCCCTCGCAAGGGCTACAGCTGCCCGGAGTGCGCCGTGTCTTT
GCCAGCCCTCTGCGGCTGCAGAGCCACCGCGTGTGCGACTCGGACCTCAAGCCCTTCACGTGCGGCGCCTGCGGC
AAGGCCTTCAAGCGCTCCAGCCACCTGTGCGGGCATGCGGCCACGCACCGCGCCCGCGCCGGGCGCCGACACC
TGCCCGCTCTGCCACGCGCTTCCAGGACGCGCGGAGCTGGCGCAGCACGTGCGCCTCCACTAAGCTCGAGAC
CCGGCCTGTGCTGCCCTGCCCGTCTCAGGGCCACCAAGTCTGACCCACACAGCGTCACTCACTCCCACACACACC
CCCTGGCTCTGCTGAGGTTACTGCCTTACCCTGGGCCTCAGCCCCACCTTCCAAAGGGAGGAGCATCATTCCTTC
CTTACCCCTTTCTAGCTGTGTGATGTAGACCAAAGTCGTTGCCCCCTCCCTGGGCCTGGGAACCAGTCGGAACTG
GGTTCAGTCCAGCTGTGCTGTGTGAGCCTGTGCAAGTGACATGACCTCTCTAAACCTTGTTTTCTGCTCTCTG
GAGCGGTGAACCGGTGGTTGTCTGCGGGGAAGAGATGATAAAGAGCACGGGCACGGTCTGGTTCATTTCTGTATC
TACCCCTTCCGCCACGCCCCGACCCTTTGCTCAATAAACATTCCGCACTCCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5622

MLLLPPRPPHPRSSSPEAMDPPPPKAPFPKAEGPSSTPSSAAGPRPRLGRHLLIDANGVPYTYTVQLEEEPRG
PPQREAPPGEFGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPH
TCPLCPRRFQDAAELAQHVR LH

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FIGURE 5623

CCTTGTCGAAGGACCAAAGGCGACCGGTGCAGGTGCACGACGCCAGCTCCCTTCTGGGGGGCCGGGGCCTGGGGG
TTGCCATGGCCCCCAGCCACCTGTCAAGTGCAGGAGATGAGGGAAGATGAGAAGCCCCCTGGTGCTGGAGATGCTGA
AGGCCGGCGTGAAGGACACGGAACCGCGTGGCCCTCCATGCCTTGACACGGCCGCCGGCCCTGCTCCTCCTGG
CGGCGGCCAGCAGCGGCCTGCGCTTTGTCTGGCTTCCTTCGCCCTGGCCCTCCTCCTGCCGGTGTTCCTGGCTG
TGGCCGCCGTGAAGCTGGGCCTGCGGGCCCGATGGGGCTCGCTGCCTCCGCCGGGTGGCCTGGGGGGCCCCCTGGG
TGGCCGTGCGGGGCTCCGGTGACGTGTGTGGGGTCTGGCTCTGGCCCTGGCACAAATGCAGGGGACGGGGCCC
GGGTCACCCGCCTGTCTGTCTCTCGCTGGCACCGCCGCCGGGGCGTGGGCAGGAGGCTGCTGGCCTTCGCGGAGG
CCCGGGCTCGGGCCTGGGCTGGGGGCATGGGGGAGCCCCGGGCCCGGCTCGTGGTCCCCGTGGCTGTGGCCGCCT
GGGGGGTGGGAGGGATGCTGGAGGGCTGTGGCTACCAGGCCGAGGGGGGCTGGGGCTGCCTGGGCTACACGCTGG
TGAGGGAATTACAGCAAAGACCTGTGAAGCTACAGACTGACAGCCAGGGCAGGGGAGGAGGGAGGGGCGCCAGCAC
CTGATGATCGCCTACTGTCTGCGGGTTCTTTTACCTGCTCTCCCTCAGTGAGTCCTCAACCACCTGGGCCCAGA
AACAGAGGCCTGCCGAGGGGAGGAGCCTGGCCTCTGTCCACCCGTCAGCAGTGTGAAGTCTGTTGTGTTTGAAGT
TCTCAGAGTGGAATGACTCCTTTTCTTCTGGCCCTCGGGGGCCTCTCGAGGTCAGCCTCTCCAACCCCTACCT
CAGCTCCTGTCTGCACTGAGAAACCTCCCCGGGTGATGTCTGCAAAGTCTGTGCTGTCCGTGCCCCAGGCTGGGA
GAGCTATCTGGGGAGGGGAGAGGAGGCCGAGCAGAATACACCCAGAGTTAGGGTTTGGGACTCCGCCTCCCTG
GGACCTGGATTGGGTGAGATGCCTGTCTTGGAGGGGACAAGGTTGACTGCTTAGGAGGCGCGACGCACAGGGCT
GCCAGGCCTGGCCCCCTCTCTGGGAAGGTTGAGAGCTGAGACGGGCAGCCCTGTCCCTTCTCCAGATCCGTCTGG
TTTTTTACACCGTTTGTAAATAAAGCCTGAAACCGC

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FIGURE 5624

MAPSHLSVREMREDEKPLVLEMLKAGVKDTENRVALHALTRPPALLLLAAASSGLRFVLASFALALLPVFLAVA
AVKLGLRARWGS LPPP GGLGGPWVAVRGSGDVCGLALAPGTNAGDGARVTRL SVSRWHRRRGVGRLLAF AEAR
ARAWAGGMGEPRARLVVPVAVAAWGVGGMLEGCGYQAEGGWGCLGYTLVREFSKDL

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FIGURE 5625

CGGCGGCGGCGACAGGACCGAGGGGCCCTTAGTTGGTGGGCAAGTCGGGGATCCCAGAAAGAGAAGCGTGACCCGG
AAGCGGAAACGGGTGTCCGTCCCAGCTCCGGCCTGCCAGTGAGCTTCTACCATCATGGACCTATTGTTTCGGGCGC
CGGAAGACGCCAGAGGAGCTACTGCGGCAGAACCAGAGGGCCCTGAACCGTGCCATGCGGGAGCTGGACCGCGAG
CGACAGAACTAGAGACCCAGGAGAAGAAAATCATTGCAGACATTAAGAAGATGGCCAAGCAAGGCCAGATGGAT
GCTGTTTCGCATCATGGCAAAAGACTTGGTGCGCACCCGGCGTTATGTGCGCAAGTTTGTATTGATGCGGGCCAAC
ATCCAGGCTGTGTCCCTCAAGATCCAGACACTCAAGTCCAACAACTCGATGGCACAAGCCATGAAGGGTGTCAAC
AAGGCCATGGGCACCATGAACAGACAGCTGAAGTTGCCCCAGATCCAGAAGATCATGATGGAGTTTGAGCGGCAG
GCAGAGATCATGGATATGAAGGAGGAGATGATGAATGATGCCATTGATGATGCCATGGGTGATGAGGAAGATGAA
GAGGAGAGTGATGCTGTGGTGTCCCAGGTTCTGGATGAGCTGGGACTTAGCCTAACAGATGAGCTGTCTGAACCTC
CCCTCAACTGGGGGCTCGCTTAGTGTGGCTGCTGGTGGGAAAAAGCAGAGGCCGCGAGCCTCAGCCCTAGCTGAT
GCTGATGCAGACCTGGAGGAACGGCTTAAGAACCTGCGGAGGGACTTGAGTGCCCCTGCCACTCCGAGATAACCAG
TGATGCCCAGGATCTTTTACCACAACCCCTCTGTAATAAAAGAGATTTGACACTAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 5626

MDLLFGRRKTPEELLRQNRALNRRAMRELDREERQKLETQEKKIIADIKKMAKQGQMDAVRIMAKDLVRTRRYVRK
FVLMRANIQAVSLKIQTLKSNNMAQAMKGVTKAMGTMRQLKLPQIQKIMMEFERQAEIMDMKEEMMNDAIDDA
MGDEEEDEESDAVVSQVLDELGLSLTDELSNLPSTGGSLSVAAGGKAEAAASALADADADLEERLKNLRRD

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FIGURE 5627

GGCGCGGGGCGAGCGGTTGTGCTTGTGCTTGTGGCGCGTGGTGCGGGTTTCGGCGGGCGGCTGAGGAAGAAGCGC
GGGCGGCGCCTTCGGGAGGCGAGCAGGCAGCAGTTGGCCGTGCCGTAGCAGCGTCCCAGCGCGCGGCGGGCAGCGG
CCCAGGAGGCGCGTGGCGGGCGCTCGGCCTCGCGGCGGGCGGGCGGCAGCGGCCAGCAGTTGGCGGCGAGCGCG
TCTGCGCCTGCGCGGGCGGGCCCCGCGCCCCCTCCTCCCCCCTGGGCGCCCCCGGCGGGCGTGTGAATGGCGGCCCTC
CGCGGCGGCAGCCTCGGCAGCAGCGGCCTCGGCCGCTTGGCAGCCCCGGGCCCCGGGCGAGGGCTCCGCTGGCGG
CGAAAAGCGCTCCACCGCCCCCTTCGGCCGAGCCTCGGCCTCTGCCTCAGCCGCGGGCGTCTGTCGCCCGCGGGGG
CGGCGCCGAGGCGCTGGAGCTGCTGGAGCACTGCGGCGTGTGCAGAGAGCGCCTGCGACCCGAGAGGGAGCCCCG
CCTGCTGCCCTGTTTGCCTCGGCCTGTAGTGCTTGTAGGGCCCGCGGCCCGCGCGCCCAACAGCTCGGG
GGACGGCGGGGCGGCGGGGCGACGGCACCCTGGTGGACTGTCCCGTGTGCAAGCAACAGTGCTTCTCCAAAGACAT
CGTGGAGAATTATTTTCATGCGTGATAGTGGCAGCAAGGCTGCCACCGACGCCAGGATGCGAACCAGTGCTGCAC
TAGCTGTGAGGATAATGCCCCAGCCACCAGCTACTGTGTGGAGTGCTCGGAGCCTCTGTGTGAGACCTGTGTAGA
GGCGCACCAGCGGGTGAAGTACACCAAGGACCATACTGTGCGCTCTACTGGGCCAGCCAAGTCTCGGGATGGTGA
ACGTACTGTCTATTGCAACGTACACAAGCATGAACCCCTTGTGCTGTTTTGTGAGAGCTGTGATACTCTCACCTG
CCGAGACTGCCAGCTCAATGCCCCACAAGGACCACAGTACCAGTTCTTAGAGGATGCAGTGAGGAACCAGCGCAA
GCTCCTGGCCTCACTGGTGAAGCGCCTTGGGGACAAACATGCAACATTGCAGAAGAGCACCAGGAGGTTTCGCAG
CTCAATCCGCCAGGTGTCTGACGTACAGAAGCGTGTGCAAGTGGATGTCAAGATGGCCATCCTGCAGATCATGAA
GGAGCTGAATAAGCGGGGCGGTGTGCTGGTCAATGATGCCAGAAGGTGACTGAGGGGCGAGGAGCGCCTGGA
GCGGCAGCACTGGACCATGACCAAGATCCAGAAGCACCAGGAGCACATTCTGCGCTTTGCCTCTTGGGCTCTGGA
GAGTGACAACAACACAGCCCTTTTGCCTTTCTAAGAAGTTGATCTACTTCCAGCTGCACCGGGCCCTCAAGATGAT
TGTGGATCCCGTGGAGCCACATGGCGAGATGAAGTTTCAGTGGGACCTCAATGCCTGGACCAAGAGTGCCGAGGC
CTTTGGCAAGATTGTGGCAGAGCGTCTGGCAGTAACTCAACAGGCCCTGCACCCATGGCCCCCTCAAGAGCCCC
AGGGCCCCTGAGCAAGCAGGGCTCTGGCAGCAGCCAGCCCATGGAGGTGCAGGAAGGCTATGGCTTTGGGTGAGG
AGATACCTCCCTACTCAAGTGCAGAGCCCCATGTGTGTCAGGTGTGAAACGGTCCCGCTCAGGTGAGGGCGAGGTGAG
CGGCCTTATGCGCAAGGTGCCAGAGTGAGCCTTGAACGCCTGGACCTGGACCTCACAGCTGACAGCCAGCCACC
CGTCTTCAAGGTCTTCCCAGGCAGTACCAGTACCACTGAGGACCTTATTGTTATTGAACGTGGCGCTGCCGCTGC
AGCTACCGGCCAGCCAGGGACTGCGCCTGCAGGAACCCCTGGTGCCCCACCCCTGGCTGGCATGGCCATTGTCAA
GGAGGAGGAGACGGAGGCTGCCATTGGAGCCCCCTCCTACTGGCACTGAGGGCCCTGAGACCAACCTGTGCTTAT
GGCTCTTGCGGAGGGTCTGGTGTGCTGAGGGTCCCCGCGCTGGCCTCACCTAGTGGCAGCACCAGCTCAGGGCTGGA
GGTGGTGGCTCCTGAGGGTACCTCAGCCCCAGGTGGTGGCCCGGAACCCCTGGATGACAGTGCCACCATTTGCCG
TGCTGTCCAGAAGCCAGGCGATCTGGTTATGTGCAACCAGTGTGAGTTTTGTTTCCACCTGGACTGTACCTGCC
GGCCCTGCAGGATGTACCAGGGGAGGAGTGGAGCTGCTCACTCTGCCATGTGCTCCCTGACCTGAAGGAGGAGGA
TGGCAGCCTCAGCCTGGATGGTGCAGACAGCACTGGCGTGGTGGCCAAGCTCTCACCAGCCAACCAGCGGAAATG
TGAGCGTGTACTGCTGGCCCTATTCTGTACGAACCCTGCCGCCCCCTGCATCAGCTGGCTACCGACTCCACCTT
CTCCCTGGACCAGCCCGGTGGCACCCTGGATCTGACCCTGATCCGTGCCCGCCTCCAGGAGAAGTTGTACCTCC
CTACAGCTCCCCACAGGAGTTTGCCAGGATGTGGGCGCATGTTCAAGCAATTCAACAAGTTAACTGAGGACAA
GGCAGACGTGCAGTCCATCATCGGCCTGCAGCGCTTCTTCGAGACGCGCATGAACGAGGCCTTCGGTGACACCAA
GTTCTCTGCTGTGCTGGTGGAGCCCCCGCCGATGAGCCTGCCTGGTGTGCTGGCCTGAGTTCCCAGGAGCTGTCTGG
TGGCCCTGGTGATGGCCCCTGAGGCTGGAGCCCCCATGGCCAGCCAGCCTGGCTCTGTTCTCTGTCTGTCTGTCACC
CCATCCCCACTCCCTGGTGGCCTGACTCCCACTCCCTGGTGGCCCCATCCCCCAGTTCTCTACGATATGGTTTT
TACTTCTGTGGATTTAATAAAAACTTACCAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5628

MAASAAAASAAAASAAASGSPGPGEESAGGEKRSTAPSAASASASAAAASSPAGGGAEALELLEHCGVCRERLRPE
REPRLLPCLHSACSACLGPAAPAAANSSGDGGAAGDGTVVDCPVCKQQCFSKDIVENYFMRDSGSKAATDAQDAN
QCCTSCEDNAPATSYCVECSEPLCETCVEAHQVRKYTKDHTVRSTGPAKSRDGERTVYCNVHKHEPLVLFCESCD
TLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKSTKEVRSSIRQVSDVQKRQVQDVKMAIL
QIMKELNKRGRVLVNDQKVTEGQQERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRA
LKMIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERP GTNSTGPAPMAPPRAPGPLSKQSGSGSSQPMEVQEGYG
FGSGDDPYSSAEPHVSGVKRSRSGEGEVSGLMRKVPRVSLERLDDLTLTADSQPPVFKVFPGSTTEDYNLIVIERG
AAAAATGQPGTAPAGTPGAPPLAGMAIVKEEETEAAGAPPTATEGPETKPVLMALEGP GAEGRPLASPSGSTS
SGLEVVAPEGTSAPGGGPGTLDDSATICRVCQKPGDLVMCNQCEFCFHLDCPLPALQDVP GEEWSCSLCHVLPDL
KEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSLDQPGGTLDLTLIRARLQEK
LSPPYSSPQEFADQDVGRMFKQFNKLTEDKADVQSIIGLQRRFFETRMNEAFGDTKFSAVLVEPPPMPSLP GAGLSSQ
ELSGGPGDGP

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FIGURE 5629

ATTTATTTATTGTTCTGGTCACTGTCTCTTTGAGGATTGGTATCTCTGCTCCAGAAAAGATGGCAGCCTCTTTC
TTCTCTGATTTTGGTCTTATGTGGTATCTGGAGGAGCTCAAAAAGGAGGAGTTCAGGAAATTTAAAGAACATCTC
AAGCAAATGACTTTGACGCTTGAAGTCAAGCAGATTCCCTGGACTGAGGTCAAAAAGCATCCCGGGAAGAACTT
GCAAACTCTTGATCAAGCACTATGAAGAACAACAAGCTTGAACATAACCTTAAGAATCTTTCAAAAAGATGGAT
AGAAAGGATCTCTGCATGAAGGTATGAGGGAGAGAACAGGATACACAAAGACCTATCAAGCTCACGCAAGCAG
AAATTCAGCCGCTTATGGTCCAGCAAGTCTGTCACTGAGATTACCTATACTTTGAGGAGGAAGTCAAGCAAGAA
GAATGTGACCATTTGGACCGCCTTTTGTCTCCCAAGGAAGCTGGGAAACAGCCACGTACAGTGATCATTCAAGGA
CCACAAGGAATTGGAACAAACGACACTCCTGATGAAGCTGATGATGGCCTGGTCCGACAACAAGATCTTTCCGGGAT
AGGTTCTGTACACGTTCTATTTCTGTCTGCAGAGAACTGAGGGAGTTGCCGCCAACGAGTTTGGCTGACTTGATT
TCCAGAGAGTGGCCTGACCCCGCTGTCTCTATAACAGAGATCGTGTCTCAACCGGAGAGACTCTTGTTCGTCATC
GACAGCTTGAAGAGCTGCAGGGCGGCTTGAACGAACCCGATTCCGATCTGTGTGGTGACTTGATGGAGAAACGG
CCGGTGCAGGTGCTTCTGAGCAGTTTGTCTGAGGAAGAAGATGCTCCCGGAGGCCTCCCTGCTCATCGCTATCAAA
CCCGTGTGCCCGAAGGAGCTCCGGGATCAGGTGACGATCTCAGAAATCTACCAGCCCCGGGGATTCAACGAGAGT
GATAGGTTAGTGATTTCTGTCTGTTTCTTCAAAGACCCGAAAAGAGCCATGGAAGCCTTCAATCTTGTAAGAGAA
AGTGAACAGCTGTTTTCCATATGCCAAATCCCGCTCCTCTGTCTGGATCCTGTGTACCACTCTGAAGCAAGAGATG
CAGAAAGGAAAAGACCTGGCCCTGACCTGCCAGAGCACTACCTCTGTGTACTCCTCTTTTCGCTTTAACTGTTC
ACACCTGAGGGTGCCGAGGGCCCCGACTCCGCAAAACCCAGCACCAGCTGAAGGCCCTGTGCTCCCTGGCTGCAGAG
GGTATGTGGACAGACACATTTGAGTTTTGTGAAGACGACCTCCGGAGAAATGGGGTTGTTGACGCTGACATCCCT
GCGCTGTCTGGGCACCAAGATACTTCTGAAGTACGGGAGCGTGAGAGCTCCTACGTGTTCTCCACGTGTGTATC
CAGGAATTTCTGTGCCGCTTGTCTATTTGTCTCAAGAGCCACCTTGATCATCCTCACCCAGCTGTGAGATGTGTA
CAGGAATTTCTAGTTGCCAATTTGAAAAGCAAGGAGAGCACATTGGATTTTTTGGGGTGTTTCTAACTGGC
CTTTTAAATAAAAAGGAACAAGAAAACCTGGATGCGTTTTTGGCTTCCAAGTGTCCCAAGAGATAAAGCAGCAA
ATTACACAGTGCCCTGAAGAGCTTAGGGGAGCGTGGCAATCCTCAGGGACAGGTGGATTCTTGCGGATATTTTAC
TGTCTCTTTGAAATGCAGGATCCTGCCTTTGTGAAGCAGGAGTGAACCTCCTCCAAGAGCTAACTTTTCATATT
ATTGACAACGTGGACTTGGTGGTTTTCTGCCTACTGCTTAAAATACTGCTCCAGCTTGAGGAACTCTGTTTTTCC
GTTCAAAATGTCTTTAAGAAAGAGGATGAACACAGCTCTACGTGCGATTACAGCCTCATCTGTTGGCATCACATC
TGCTCTGTGCTCACCAACAGCGGGCACCTCAGAGAGCTCCAGGTGCAGGACAGCACCCCTCAGCGAGTCGACCTT
GTGACCTGGTGTAACCAGCTGAGGCATCCAGCTGTGCGCTTCAAGAGCTTGGAATAAATAACGTTTTCTTTTCT
GGCCAGAGTGTTCTGCTCTTTGAGGTGCTCTTTTATCAGCCAGACTTGAAATACCTGAGCTTCAACCTCAGGAAA
CTCTCTCGTGATGACATCAGGTCCCTCTGTGATGCCTTGAACCTACCAGCAGGCAACGTCAAAGAGCTAGCGCTG
GTAAATTTGTACCTCTCACCCATTGATTGTGAAGTCCTTGTGCGCTTCTAACCACAACAAGAAGCTGACGTAT
CTGAATGTATCCTGCAACCAGTTAGACACAGGCGTGCCCTTTTGTGTGAAGCCCTGTGCAGCCAGACACGGTC
CTGGTATACCTGATGTTGGCTTTCTGCCACCTCAGCGAGCAGTGCTGCGAATACATCTCTGAAATGCTTCTGCGT
AACAAGAGCGTGCGCTATCTAGACCTCAGTGCCAATGTCTGAAGGACGAAGGACTGAAAACCTCTCTGCGAGGCC
TTGAAACATCCGACTGCTGCCTGGATTCACTGTGTTTGGTAAATGTTTTATCACTGCTGCTGGCTGTGAAGAC
CTCGCCTCTGCTCTCATCAGCAATCAAAACCTGAAGATTCTGCAAATGGGTGCAATGAAATCGGAGATGTGGGT
GTGAGCTGTTGTGTCGGGCTCTGACGCATACGGATTGCCGCTTAGAGATTCTTGGGTGGAAGAATGTGGGTTA
ACGAGCACCTGCTGTAAGGATCTCGCTCTGTTCTCACCTGCAGTAAGACCTTGACGAGCTCAACCTGACCTTG
AACACCTTGAACACACAGGGGTGGTGTACTCTGTGAGGCCCTGAGACACCCAGAGTGTGCCCTGCAGGTGCTC
GGGCTGAGAAAACTGATTTTGTATGAGGAAACCCAGGCACCTTGTGACGGCTGAGGAAGAGAGAAATCTAACCTG
ACCATCACAGACGACTGTGACACAATCACAAGGGTAGAGATCTGATTGCGAGGAACCTGGGCTCTGACTCGAACA
CCTGCAAAGGACAGGGACTGGGACCGTTACTTACATGACACTGCACCCAGGAGATACAAATCATTGATACTCTGA
GTTGTGAGATTTCTGGCACCCATTATAGATTTGATATGATACACGTGGTTTTTATGTGCTCTGTGGCCTTGGA
TGAGTCACTGAAAGGCCCTTATGGTCTCTCGGTCTCACAAGGACCTCTTAACCCCTCAATAAAGTGTTACATTT
TAAACATTGG

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FIGURE 5630

MAASFFSDFGLMWYLEELKKEEFRKFKEHLKQMTLQLELKQIPWTEVKKASREELANLLIKHYEEQQAWNITLRI
FQKMDRKDLCKMKVMRERTGYTKTYQAHAKQKFSRLWSSKSVTEIHLYFEEVKQEECDHLDRLFAPKEAGKQPR
VIIQGPQGIGKTTLLMKLMMASDNKIFRDRFLYTFYFCCRELRELPTSLADLISREWPDPAAPITEIVSQPER
LLFVIDSFEELQGGLENEPDSDLGDLMEKRPVQVLLSSLLRKKMLPEASLLIAIKPVCPKELRDQVTISEIYQPR
GFNESDRLVYFCCFFKDPKRAMEAFNLVRESEQLFSICQIPLLCWILCTSLKQEMQKGKDLALTCQSTTSVYSSF
VFNLFTPEGAEGPTPQTQHQLKALCSLAAEGMWTDTFEFCEDDLRRNGVVDADIPALLGTKILLKYGERESSYVF
LHVCIQEFCAALFYLLKSHLDHPPAVRCVQELLVANFEKARRAHWIFLGCFLTGLLNKKEQEKLDAFFGFQLSQ
EIKQQIHQCLKSLGERGNPQGQVDSLAIIFYCLFEMQDPAFVKQAVNLLQEANFHIIDNVDLVVSAYCLKYCSSLR
KLCFSVQNVFKKEDEHSSTSDYSLICWHHICSVLTTSGHLRELQVQDSTLSESTFVTWCNQLRHPSCRLQKLGIN
NVSFSGQSVLLFEVLIFYQPDLYLSFTLTKLSDIRSLCDALNYPAGNVKELALVNCHLSPIDCEVLGLLTNN
KKLTYNVSCNQDGTGVPLLCALCSPDTVLVYLMALFCHLSEQCCEYISEMLLRNKSVMRYDLNANVLKDEGLK
TLCEALKHPDCCLDSLCLVKCFITAAGCEDLASALISNQNLKILQIGCNEIGDVGVLQCRALHTDCRLEILGL
EECGLTSTCCKDLASVLTCSKTLQQLNLTLNLTLDHTGVVVLCEALRHPECALQVLGLRKTDDEETQALLTAE
RNPNLITITDDCDTITRVEI

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FIGURE 5631

GTGGGGCGCGGGCAATGGAGCAGAGTATGGGAGAACGCGCTCGGAGTAAAGCACACGGCGCGGGCGAAGGCGTGGC
GGGAGTGTGCGGGCGCCGGACCCGGGAAGCTGGCCTGGGCGCCGGGTCTCGAGTGCAGGCCTTTGTTCTGAAGTGT
CCAGGCCGGCCTTGCGGGCTCGGGACTGAGGAATGGAGCCCCTCGCGGGCGGGGCGGGAAAGGAAGGTTCAAGT
CTCTCGGGTTGATGCGCAAGTTTCCGTCCCCATCGGCCGGACAGATTAGAATCCTTTTCAGGTGCTAGATGGCGGC
TGCAGAGGCTGTGCATCACATACACCTGCAGAACTTCTCACGCTCTCTGCTTGAGACCCTCAATGGGCAGAGGCT
TGGGGGACACTTCTGTGACGTGACTGTGCGCATTCTGTGAAGCTTTCGCTGCGTGCCACCCTGCGTGCTGGCGGC
CGGCTCACCCCTTCTTCCAAGACAAGCTGCTGCTCGGCCACTCTGAGATCCGTGTGCCTCCGGTGGTGCCCGCGCA
GACAGTGCGACAGCTGGTAGAGTTCTGTACAGCGGTTTCGCTCGTTGTGGCGCAGGGTGAAGCCCTGCAGGTGCT
CACGGCCGCGTCAGTGCTTCGCATACAGACAGTTATCGACGAATGCACGCAGATTATCGCCCGCGCTCGAGCCCC
GGGCACCTCTGCGGCCACGCCCCCTGCCACCCCTGTGCCCCCGCCACTCGCACCTGCGCAGCTGCGTCACCGCCT
GCGCCACCTGCTGGCTGCACGTCCCCCGGGGCACCCCGGTGCTGCACACAGCCGTAAGCAGCGCCAGCCCGCGCG
TTTGCAGCTGCCAGCGCCCCAACACCTGCCAAGGCTGAGGGGCTGATGCTGACCCCTCACTGTCCGCGGGCCCC
TGATGACCGAGGTGACGAGGATGACGAGGAAAGTGACGATGAGACCGATGGCGAGGATGGCGAAGGTGGCGGGCCC
AGGCGAGGGCCAGGCACCTCCTTCTTCCAGACTGTGCTGCTGGCTTCTCACTGCTGCTGCTGACAGCGCGTG
CGAGGAGCCCCCTGCACCCACTGGCCTCGCTGACTACAGTGGTGCCGGGAGAGATTTTCTTCGGGGAGCTGGGTC
AGCTGAGGACGTAATTTCCAGACAGCTATGTATCCACTTGGCACGACGAGGATGGCGCTGTCCCCGAAGGCTGTCC
CACTGAGACCCCTGTCCAGCCCGACTGCATACTGTCTGGATCCCGCCCGCTGGTGTGAAGACCCAGGGCCGCC
CGTTGCACTCTTCCCCCTTCACTTGGGTGCCCCCTGGGCCACCCGCACCACCCCTTCAGCACCATCGGGGCCAGC
CCCTGCGCCCCACCCGCTTCTACCCACACTCCAGCCCGAGGCAGCCCCAGTACTCAGCTGGGGGAGGTCCC
GGCTCCCTCTGCTGCTCCACACGCCCCCTCAGGCACCCCTGCTCGCACCCAGGTGCTGAGCCACCTACGTA
TGAGTGCGCCACTGTGCAAGACGTTCAAGTCCCGGAAAACTACACCAAGCACATGTTTATCCACTCGGGGGA
GAAGCCGCACCAAGTGCGCCGTGTGCTGGCGATCCTTCTCTCTACGCGACTACCTGCTCAAACACATGGTCACGCA
CACC GGCGTGCGCGCCTTCCAGTGCGCCGTCTGCGCCAAGCGCTTCACGCAGAAGAGCTCGCTCAACGTGCACAT
GCGCACTCACCGGCCGAGCGCGCGCCCTGCCCCGCTGCGGCAAGGTCTTCTCGCACCGCGCGCTGCTGGAGCG
CCACCTGGCGGCGCACCTGCGCCCCTGATGGCGCTGGGGCTGGCCTCGCCACGGTGGATCCGGGGCCTCCCCG
ACAGTCGGCCACGCCCCGCTGCGGGACCCGTGGTTCCCGCCACTAGACCACGCTCCCTCCTGAGCGCAGGTCTCT
CTCTCCCTTACCCCTTCTTCCATACCAGGGCCTAAGTCCGCCTTACTCCTCTCCTCCATGTACTTGAACCCTCCA
GGTGGTGCCGGCTGGGGCTGGGGCTGGTTAGACCACTTCTGAGAAGTGGACTATTTCTGCGTAAACCGGGCGC
TCAGGCGCTTGGACCCGGCCCCAAGATTTGACTCCGTTCTACCCCGCCCTCTCCTGGGGTGGTGGTGGGGGCTG
GGGGGCGCTTGCTGCCCCAGGGTCAGGCTGGGCAAGGTCCCTAGCTCTCTACCCAAGCTGTTACTCCCTCATG
GGGCGCTAAGGAGACTCAAGTGGAACCATCATATATGGGGGCTGGGCCTCGGGACTCTCGCTCTAATAAAGGAC
GTAGGCCATGGGGCTAAACACGAAA

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FIGURE 5632

MAAAEAVHHIHLQNFSRSLLETNLNGQRLGGHFCDTVRIREASLRAHRCVLAAGSPFFQDKLLLGHSEIRVPPVV
PAQTVRQLVEFLYSGSLVVAQGEALQVLTAASVLRIQTVIDECTQIIARARAPGTSAPTPLPTVPVPPPLAPAQLR
HRLRHLLAARPPGHPGAAHSRKQRQPARLQLPAPPTPAKAEGPDADPSLSAAPDDRGDEDEESDDDETGDGEDGEG
GGPGEGQAPPSFPDCAAGFLTAAADSACEEPPAPTGLADYSGAGRDFLRGAGSAEDVFPDSYVSTWHDEDGAVPE
GCPTETPVQPDCILSGSRPPGVKTPGPPVALFPFHLGAPGPPAPPPSAPSGPAPAPPPAFYPTLQPEAAPSTQLG
EVPAPSAAPTTPASGTPARTPGAEPPTYECSHCRKTFSSRKNYTKHMF IHSGEKPHQCAVCWRSFSLRDYLLKHM
VTHTGVRAFQCAVCAKRFQKSSSLNVHMRTHRPERAPCPACGKVF SHRALLERHLAAHPAP

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FIGURE 5633

GGCGGCGCGTGTTCTACGCCGAGTGACAGAGACGCTCAGGCTGTGTTCTCAGGATGACCGAGTGGGAGACAGCAG
CACCAGCGGTGGCAGAGACCCAGACATCAAGCTCTTTGGGAAGTGGAGCACCGATGATGTGCAGATCAATGACA
TTTCCTGCAGGATTACATTGCAGTGAAGGAGAAGTATGCCAAGTACCTGCCTCACAGTGCAGGGCGGTATGCCG
CCAAACGCTTCCGCAAAGCTCAGTGTCCCATTTGTGGAGCGCCTCACTAACTCCATGATGATGCACGGCCGCAACA
ACGGCAAGAAGCTCATGACTGTGCGCATCGTCAAGCATGCCTTCGAGATCATACACCTGCTCACAGGCGAGAACC
CTCTGCAGGTCTTGGTGAACGCCATCATCAACAGTGGTCCCCGGGAGGACTCCACACGCATTGGGCGCGCCGGGA
CTGTGAGACGACAGGCTGTGGATGTGTCCCCCTGCGCCGTGTGAACCAGGCCATCTGGCTGCTGTGCACAGGCG
CTCGTGAGGCTGCCTTCCGGAACATTAAGACCATTGCTGAGTGCCTGGCAGATGAGCTCATCAATGCTGCCAAGG
GCTCCTCGAACTCCTATGCCATTAAGAAGAAGGACGAGCTGGAGCGTGTGGCCAAGTCCAACCGCTGATTTTCCC
AGCTGCTGCCCCAATAAACCTGTCTGCCCTTTGGGGCAGTCCCAGCCAAAA

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FIGURE 5634

MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKKEYAKYLPHSAGRYAAKRFKQAQCPIVERLTNS
MMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSP LRRVNQA
IWLCTGAREAAFRNIKTIAECLADELINAAGSSNSYAIKKKDELERVAKSNR

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FIGURE 5635

CAGAGGTTGTGGTGAGCCGAGATCACAGCACTGCACTCCAGCCTGGGTGACAAGAGCAAGACTCCGTCTCAAAAT
AAATAAATAAAAAATAAAAAATAAACATGATGATCACAGATGCAGTCACATTTTCTGAGTTCTTGTCTCTCTGCCA
GTGCCACCCAGATAGCCTCACAAAACCTTTGACCCAGCCACTGTTAGTGTCGCCACCGCCCATAAAGGAGCTGAGC
CCAGCAGGGGCACTGCCTGGGGCCCTGTAGCCAAAAGGCTACAGCAGGAGCTGATGACCCTCATGATGCCTGGTG
ACAAAAGAATTTCTGCCTACCCTGAAAGCCTTATCAAATGGACACCATCCATGAAGCAGCTGGCACAGTGTATGA
AGATCTGAGGTATAAGCTCTTGCTGGAGTTCCTCAATGACTACCCACCTTTACGATGCACCCACAGTGAAGTTCC
TCACACCCTGCTACCACCCTAACGTGGACACCCAGGGTAACATATGCCTGGACATCCTGAAGGAGAAGTGGTCTG
CCCCGTATGATATCAGGACCATCCTGCTCTCTATCCAGTGCCTGCTAGGACAACCTCAACATTGATAGCCCTTTGA
ACACACATGCTACCAAGCTCTGGGAAAACCCCATAGCTTTAAGAAGTACCTGCAAGGGTCAGGCGCAGTGGCTCA
CACCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGGTGGATGGATCACCTGACGTAGAGAGTCCAAGGCCTGAC
AAACATGGAGAAATGTCATCCCTATTTAAAAAATAAAAAAATTAGCCAAG

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FIGURE 5636

GACTCAGGTGAACTAACCTGCGAGAAGCTGGTTGTGCGCTGAGGCGACCAGCGCCGGAAGGCACGGTGGCGACTC
ACGCTGTTCTCGCCGCTCAGAGGCGGGTCTGAGGCTCGGTGGCGGCGCCAGGGTGGCCCGGGCCCTTTCCCTCGG
TCATTGTCTCCCTCCAGCTCTACTCACAGGCTCCGATGGCGGCGGCCGCTGAGGGACCCCGCTCAGGTTCCCT
GTGGCTGCAGACTTGCTTACAGACCATGAGGAGGGCTATGTGACCTTTGAGGATGTGGCTGTCTACTTCTCCAG
GAGGAATGGAGATTGCTTGATGACGCTCAGAGGCTCCTCTACCGCAATGTGATGCTGGAGAACTTTACACTTCTG
GCCTCTCTCGGACTTGCATCTTCCAAGACCCATGAAATAACCCAGCTGGAGTCATGGGAGGAGCCCTTCATGCCT
GCTTGGGAAGTTGTGACTTCAGCCATACCGAGAGGTTGTTGGCATGGAGCCGAGGCTGAGGAGGCTCCTGAGCAG
ATTGCTTCTGTAGGACTGCTCAGTTCAAACATTACAGCAACACCAGAAGCAGCACTGTGGAGAGAAACCCTTAAAA
AGACAACAGGGCAGGGTCCCAGTTTTGAGGAGTTGCAAAGTTCACCTATCAGAGAAGTCCTTGCAAAGCAGGGAG
GTTGGGAAGGCCCTCCTGATCAGCTCAGGTGTTCTCAAGCACCAGGTGACTCACACAGGAGAGAAAGTCACATAGG
AGCTCCAAAAGTAGGGAGGCCTTTTCATGCTGGAAAAAGGCATTACAAATGCAGTGAATGTGGGAAAGCCTTTGGT
CAGAAATATTTACTTGTTCAGCACCAGAGACTACATGCTGGGAAAAAGACGTATGAATGCAGTGAATGTGGGAAG
TTATTTAGAGATATGTCCAACCTTTTTATACACCAAATAGTTCACACTGGAGAAAGGCCTTACGGGTGTAGTAAC
TGTGGAAAATCCTTTAGCCGTAATGCTCACCTCATTGAACACCAGAGAGTTCACACTGGAGAAAAGCCTTTTACA
TGCAGTGAATGTGGAAAAGCCTTTAGGCATAATTCCACACTTGTTCAGCATCACAAAATCCACACTGGAGTAAGG
CCTTATGAGTGCAGTGAATGTGGAAAATTGTTTAGTTTCAACTCCAGCCTCATGAAACATCAGAGAGTTCACACT
GGAGAAAGACCTTATAAGTGCAGTGAATGTGGAAAATTCTATAGCCACAAGTCCAACCTTATCAAACATTGGCGT
GTTCTACTGGAGAAAGGCCTTACAAGTGCAGCGACTGTGGGAAATTTTTTACCCAATGCTCAAGCCTCATGCAA
CATCAAAAAGTTCACACTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTCTTTAGAGAGAATTCCACC
CTAGTTAGACATCAGAGGGTTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGTGGGAAATTTTTTAGCCAA
AGCTCAACCCTCATGCAACATCGAAAAGTTCACATTGGAGAAAAGCCTTTTAAGTGCAATGAATGTGGGAGATTG
TTTAGAGAGAATTCCAGCCTTGTTAAACATCAGAGGGTTCACACTGGAGCAAAGCCTTATGAGTGCAGGGAATGT
GGGAAGTTTTTTTCGCCACAACCTCCAGTCTTTTTTAAACATCGAAGGATTCACACTGGAGAAATGCAGTGAATTGTG
GAAATCCTTTAGCCAGCGTTTTCAACCTCATTCAACACCAGAAAGTTCACAGTGGAAAAATCTTGAAGGTAACAG
ATGGAAATCCGTTAGCCACACCTCCAGTCTCATTCAACACTGGACAGTTTACAATGTGGACAATGTAGTGAATAT
GGAAAAAGGTTTCAGCCAAAGGCCTAACCTATTCAACACCAGAAAGTTAGAATGGAGAAAGGCCTTAGGGTGA
CAGGTTATGTACTGTCTCTGAATCAATATGACCTCACTTAAACAGAAACTCTGAGGATGGCCTTTATGAGGGAG
CTGGCAATTGAACATCATTCTAAATATGCACACTGGAGGCAAGATGAGAATTCCTGACAGATTGTCCTTCCT
GAGAAGACAGCCCTCTGCCTTGGAGCTCCAGAGAGAGGGAGCCCTGTATTCTTGGCTGTACCCGTCGAATGGAGT
TTTGATCTCGCTGAGTTTGGAGTTGGGGGAGGAAAGGAGTGGTCTTGGTTCAAATGTGACTCACTTTTGCTGTTT
TTGTGAATGTTAGATCTTCTTTAATAAATATTTATTTCCCATACACCCTTATGACCATTAAAAAAAAAAAAAAAA
AA

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FIGURE 5637

MAAAALRDPAQVPVAADLLTDHEEGYVTFEDVAVYFSQEEWRLDDAQRLLYRNVMLNFTLLASLGLASSKTHE
ITQLESWEPPFMPAWEVVTSaiprgcwhgaaeeapeqiasvllssniqqhqkqhcgkplkrqqgrvpvlrsc
KVHLSEKSLQSREVGKALLISSGVLKHQVTHTGEKSHRSSKSREAFHAGKRHYKCSECGKAFGQKYLVLVQHQLH
AGKITYECSECGKLFRDMSNLFIHQIVHTGERPYGCSNCGKSFsrnaHLIEHQRVHTGEKPFTCSECGKAfrhns
TLVQHHKIHTGVRPYECSECGKLFSFNSSLMKHQRVHTGERPYKCSECGKFYSHKSNLIKHWrvHTGERPYKCD
CGKFFTQCSSLMQHQKVHTGEKPFKCNECGRFFRENSTLVRHQRVHTGAKPYECRECGKFFSQSSTLMQHRKVHI
GEKPFKCNECGRLFRENSSLVKHQRVHTGAKPYECRECGKFFRHNSSLFKHRRiHTGEMQ

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FIGURE 5638

GTGCGATCCCGGGCCCGAGGGCATCAGACGGCGGCTGATTAGCTCCGGTTTGCATCACCCGGACCGGGGGATTAG
CTCCGGTTTGCATCACCCGGACCGGGGGCCGGGCGCGCACGAGACTCGCAGCGGAAGTGGAGGCGGCTCCGCGCG
CGTCCGCTGCTAGGACCCGGGCAGGGCTGGAGCTGGGCTGGGATCCCGAGCTCGGCAGCAGCGCAGCGGGCCGGC
CCACCTGCTGGTGCCCTGGAGGCTCTGAGCCCCGGCGGCGCCCGGGCCACGCGGAACGACGGGGCGAGATCGGA
GCCACCCCTCTAGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAGTTGGATGACAACTTAGATACC
GAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAGCCCAGACTGCCCCCTGCTGTGCCCCCTGAGCCCCA
CCTACTGCTCCAGATCGTGCAACTGCTGTGGCCACTGCCCTCCCGTCTTGGGCCCTATGTCTCTCTGGAGCCCCGAG
GAGGGCGGGCGGGCCCTACCAGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCCGTCCAG
GAAGCCCCGGCCGTGCTGGAGCCCTATGCGCGGCTGCCCCCGCACAAAGCATGTGGCTCGGCCCCACTGAGGTCTCTG
GCTGGTACCCAGCTCCTCTACGCCTTTTTCACTCGGACCCATGGGGACATGCACAGCCTGGTGGGAAGCCGCCAC
CGTATCCCTGAGCCTGAGGCTGCCGTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTCAACAGCACGGT
CTGGTCTCGGTGATCTCAAGCTGTGTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTCTGGAGAAC
CTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCTGTGGGACAAGCACGCGTGCCAGCCTACGTGGGA
CCTGAGATACTCAGCTCACGGGCCTCATACTCGGGCAAGGCAGCCGATGTCTGGAGCCTGGGCGTGCGCTCTTC
ACCATGTGGCCGGCCACTACCCCTTCCAGGACTCGGAGCCTGTCTGCTCTTCGGCAAGATCCGCCGCGGGGCC
TACGCCTTGCCCTGCAGGCCTCTCGGCCCTGCCCGCTGTCTGGTTCGCTGCCCTCCTTCGTCGGGAGCCAGCTGAA
CGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATGCCCTTAGCCCCAACCCGATCC
CATCTCTGGGAGGCTGCCAGGTGGTCCCTGATGGTCTGGGGCTGGACGAAGCCAGGGAAGAGGAGGGAGACAGA
GAAGTGGTTCTGTATGGCTAGGACCACCCCTACTACAGCTCAGCTGCCAACAGTGGATTGAGTTTGGGGGTAGCT
CCAAGCCCTTCTCTGCTCTGAAGTGAAGCAACCTTCAGTGCCTTCCAGAAGGGAGAAAGGCAGAAGCCTGTGT
GGAGTGTGCTGTGTACACATCTGCTTTGTTCCACACACATGCAGTTCCTGCTTGGGTGCTTATCAGGTGCCAAGC
CCTGTTCTCGGTGCTGGGAGTACAGCAGTGAGCAAAGGAGACAATATCCCTGCTCACAGAGATGACAACTGGC
ATCCTTGAGCTGACAAACATTTTCCATGACCATAGGTCACTGTCTACACTGGGTACACTTTGTACCACTGTGCGC
CTCCACTGATGCTGGTGCTCAGGCACCTCTGTCCAAGGACAATCCCTTTCACAAACAAACCAGCTGCCTTTGTAT
CTTGATACCTTTTTCAGAGAAAGGGAGGATCCCTGTGCCAAAGGCTCCAGGCCTCTCCCTGCAACTCAGGACCCA
AGCCCAGCTCACTCTGGGAAGTGTGTTCCAGCATCTCTGCTCTTTGATTAAAGAGATTCTCCTTCCAGGCCTAA
GCCTGGGATTTGGGCCAGAGATAAGAATCCAACTATGAGGCTAGTTCTTGTCTAACTCAAGACTGTTCTGGAAT
GAGGGTCCAGGCCTGTCAACCATGGGGCTTCTGACCTGAGCACCAAGGTTGAGGGACAGGATTAGGCAGGGTCTG
TCCTGTGGCCACCTGGAAAGTCCAGGTGGGACTCTTCTGGGGACACTTGGGGTCCACAATCCAGGTCCATACT
CTAGGTTTTGGATACCATGAGTATGTATGTTTACCTGTGCCTAATAAAGGAGAATTATGAAATAAAAAAAAAA
AAAAAA

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FIGURE 5639

MRATPLAAPAGSLSRKKRLEDDNLDTERPVQKRARSGQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLE
PEEGGRAYQALHCPTGTEYTCKVYPVQEAPAVLEPYARLPPHKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRS
RHRIPEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSVLTGPDDSLWDKHACPAY
VGPEILSSRASYSKGAADVWSLGVLFMTLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREP
AERLTATGILLHPWLRQDPMFLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG

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FIGURE 5640

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCCTTG
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGT
GGGGTCTCCGGGACTTGGAACGCCCCGGCTGGGTGGTGTCCGGGCGTCTTTCCCGCTTCTTCCACCTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCAGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTCAACGGGCAGTGTGATGCTTCCCGACTGCCCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCAGGCGACCCGGAGGTAGCAATTC
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCACCATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCACAGTCTTGCAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGGCGCAGAAATGGGGACAGTGCCTACCTCTATCTGCTGTCAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCCGATGCTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCCAGGAACCCGGACGGGGGCA
GCCAGATGACAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCCCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCTACCAGGTCCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCCTGGCGGGCAGGAGGAGGCGCTGCGTCAGTACCAGCAGCGGAAGCAGCAGCAGCAGGAGGG
GAACTACCTGCAGCACGTCCAGCTGGACCAGAGGAGCCTGGTGCTGAACACGGAGCCCCGCCGAGTGCCCCGTGTG
CTACTCGGTGCTGGCGCCCCGGCGAGGCGTGGTGTGCTGCGTGAGTGTCTGCACACCTTCTGCAGGGAGTGCCTGCA
GGGCACCATCCGCAACAGCCAGGAGGCGGAGGTCTCCTGCCCCCTCATTGACAACACCTACTCGTGCTCGGGCAA
GCTGCTGGAGAGGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCAT
TGCTGAAAACCGCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGA
TGTCAATGAGTTACCTGCCCTGTGTGTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAA
CTGCAAGGAGTATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCT
GAAGGTGATGCTGCAGCAGGGCGAGGCCATGCGCTGCCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTG
CGACTGGATCCGCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGG
CCCAGGAGACACCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCCCTTGCCACCCAAGCTGTCAGAACTGCCA
CTGAGCTAAAGATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTGTTAGAAATGTAGCTCAGGGAGC
TTCGTGGACGGCCTTGCTTGCTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCC
CCAGTGCCCTTTGTCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCCACCTCTGCCTGACCC
CAGCCTTAAACATAGCCCCTGGCCAGAGGCCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCTCCCACCAC
AACACTCATCTGTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTGAGCTTTCTGGGGCTAACTTCTC
TGCCTTTGTGTTGGAGGCTGAGGCCTCTTGGAACCTTGTCTAACCTGTTTCAAGGCCAGGAAGGAGACTGCACA
GTTTTGAAAGCACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAA
ATGGTTTTCCGGGAA

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FIGURE 5641

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNTSLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQRKQQQEGNYLQHVQLDQRSVLNTEPAECPVCYSVLAPGEAVVLRECLHTFCRECLQ
GTIRNSQEAEVSCPFIDNTYSCSGKLLEREIKALLTPEDYQRFLDLGISIAENRSAFSYHCKTPDCKGWCFFEDD
VNEFTCPVCFHVNCLLCKAIHEQMNCKEYQEDLALRAQNDVAARQTTEMLKVMLQQGEAMRCPQCQIVVQKKDGC
DWIRCTVCHTEICWVTKGPRWGPGGPGDTSSGCCRCRVNGIPCHPSCQNH

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FIGURE 5642

GGGAGTCCGGGGACCCGCGATCAGCCCCGGAGGACGGGGTGGGGTCGCCCCAAACAGGAGCGCCGGGACCGCTGG
GACCCCGCACTCGGCGTCCGCCGCCCGGGTAGCCGGGCAGTGGAGGTCCCGGATGAGGCGACAATTTTCCGG
CCCCCTCCAGTCCCGCCCCACTTCCGGGGCCGCCACTTTCACTTTCTCTTCCGCCGAAGCCGCTCCCCTTGC
GAAGAACTGGGGCCTCCCGGGAGGAGAGAGGGCTTTGCCTTGAAACCCGGGACGCCAGGGGCGCTCCCGCAAGTG
GGGGTCTCCGGGACTTGGAACGCCCGGGCTGGGTGGTGTCCGGGCGTCTTTCCCCGCTTCTTCCCACTCGGC
TGGTCCCGTTTCTCTCTGCGCCAGTGCGGACCTGTCTCGGCGCCCGCTGCCCTCTCACCGCCCCACGCAGGATC
CCGGCCTGGTACCGGGCAGTGTGATGCTTCCGACTGCCGCGGGGACAGCGAGGCACACACAGGGCTTGGGCCG
CGCCGGAGGCCACACGGCCTGGCTGAGTTGCTCCTGGTCTCCCGCCTCTCCCAGGCGACCCGGAGGTAGCATTTT
CCAGGAGGCACGGTCCCCCCCCAGGGGGATGGGCACAGCCACGCCAGATGGACGAGAAGACCAAGAAAGCAGAGGA
AATGGCCCTGAGCCTCACCCGAGCAGTGGCGGGCGGGGATGAACAGGTGGCAATGAAGTGTGCCATCTGGCTGGC
AGAGCAACGGGTGCCCCTGAGTGTGCAACTGAAGCCTGAGGTCTCCCCAACGCAGGACATCAGGCTGTGGGTGAG
CGTGGAGGATGCTCAGATGCACACCGTCAACATCTGGCTCACAGTGCGCCCTGATATGACAGTGGCGTCTCTCAA
GGACATGGTTTTTCTGGACTATGGCTTCCCAACAGTCTTGACAGCAGTGGGTGATTGGGCAGCGGCTGGCACGAGA
CCAGGAGACCTGCACTCCCATGGGGTGGCGGAGAAATGGGGACAGTGCCTACCTCTATCTGCTGTCAGCCCGCAA
CACCTCCCTCAACCTCAGGAGCTGCAGCGGGAGCGGCAGCTGCGGATGTGGAAGATCTGGGCTTCAAGGACCT
CACGCTGCAGCCGCGGGGCCCTCTGGAGCCAGGCCCCCAAAGCCCGGGTCCCCCAGGAACCCGGACGGGGGCA
GCCAGATGCAGTGCCTGAGCCCCACCGGTGGGCTGGCAGTGCCCCGGGTGCACCTTCATCAACAAGCCACGCG
GCCTGGCTGTGAGATGTGCTGCCGGGCGCGCCCCGAGGCCTACCAGGTCCCCGCCTCATACCAGCCCGACGAGGA
GGAGCGAGCGCGCTGGCGGGCGAGGAGGAGCGCTGCGTCAGTACCAGCAGGGAGTGCCTGCAGGGCACCATCC
GCAACAGCCAGGAGGCGGAGGTCTCCTGCCCTTTCATTGACAACACCTACTCGTGCTCGGGCAAGCTGCTGGAGA
GGGAGATCAAGGCGCTCCTGACCCCTGAGGATTACCAGCGATTTCTAGACCTGGGCATCTCCATTGCTGAAAACC
GCAGTGCCTTCAGCTACCATTGCAAGACCCAGATTGCAAGGGATGGTGCTTCTTTGAGGATGATGTCAATGAGT
TCACCTGCCCTGTGTGTTTTCCACGTCAACTGCCTGCTCTGCAAGGCCATCCATGAGCAGATGAACTGCAAGGAGT
ATCAGGAGGACCTGGCCCTGCGGGCTCAGAACGATGTGGCTGCCCGGCAGACGACAGAGATGCTGAAGGTGATGC
TGACAGCAGGGCGAGGCCATGCGCTGCCCCAGTGCCAGATCGTGGTACAGAAGAAGGACGGCTGCGACTGGATCC
GCTGCACCGTCTGCCACACCGAGATCTGCTGGGTACCAAGGGCCACGCTGGGGCCCTGGGGGCCCAGGAGACA
CCAGCGGGGGCTGCCGCTGCAGGGTAAATGGGATTCCCTGCCACCCAAGCTGTCAGAACTGCCACTGAGCTAAAG
ATGGTGGGGCCACATGCTGACCCAGCCCCACATCCACATTCTGTAGAAATGTAGCTCAGGGAGCTTCGTGGACGG
CCTTGCTTGTGTAGCGTTGTAGGGGCCCTGCCTGCACTGCGGTTGTCCACGGTCACATCTGCCCCAGTGCCTTT
GTCCTTCCCTTGGGGCTTGCCGGCCAGACTTCTCTCCCTGCGGCTCCACCTCTGCCTGACCCAGCCTTAAAC
ATAGCCCCTGGCCAGAGGCCTTGCTGGGTGGAGCCTCTGTGTGACTCCATACTCCTCCACCAACAACACTCATCT
GTCAAACACCAAGCACTCTCAGCCTCCCCGCCTTCAGCTGTGAGCTTTCTGGGGCTAACTTCTCTGCCTTTGTGG
TTGGAGGCCTGAGGCCTCTTGAACTCTTGCTAACCTGTTTCAGAGCCAGGAAGGAGACTGCACAGTTTTTGAAAGC
ACAGCCCGTCAGGTCCGGCTCTGCGTCTCCCTCTCTGCAGCCTGTGTAAGCTATTATAATTAAAATGGTTTTCCG
GGAA

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FIGURE 5643

MALSLTRAVAGGDEQVAMKCAIWLAEQRVPLSVQLKPEVSPTQDIRLWVSVEDAQMHTVTIWLTVRPDMTVASLK
DMVFLDYGFPPVLQQWVIGQRLARDQETLHSHGVRQNGDSAYLYLLSARNISLNPQELQRERQLRMLEDLGFKDL
TLQPRGPLEPGPPKPGVPQEPGRGQPDVPEPPPVGWQCPGCTFINKPTRPGCEMCCRARPEAYQVPASYQPDEE
ERARLAGEEEEALRQYQQGVPAGHHPQQPGGGGLLPLH

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FIGURE 5644

GACGATGGGGCTGCGTG CAGGAGGAACGCTGGGCAGGGCCGGCGCGGGTTCGGGGGGCGCCCCGAGGGGCCCGGGCC
GAGCGGCGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGCGGTGCACAACGTGCCGCTGAGCGTGCT
CATCCGGCCGCTGCCGTCCGTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGGGAGGACCCAGA
CAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGCCAGGGAGGTGACTACTTCTACTCCTTTGGGGGCTG
CCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCCAAGCTTGTCAGTCCACTCTCTCAGA
CCTAAGGGTGTAACCTGGGAGCATCCACACCAGACTTGAGTAGCAGCCTCCTTGGCACCTGCTGCCACCTTCAAG
AGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGCAGGGGTGCATTCTCTTTGCAC
CTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCAGCTACAAGGCCTTGGACTCACTGTACAGTGTGGGAGC
CCCAGTTCACCTCTGTGACAATAGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGG
GCTTGAAGAGCCACGTGCTGCCGGCTCCAAATTCCTCAAGGACAAGGATCCCTCTGCATTTTTGTCTATGTAACCT
CTTATATGGACTACATTTCAGCTGCAAGGAAAGGAAAACCTTGATTGCAGTGGTTTAAACAAACAGAAGATTGTTT
TTCCACATAGCATGGATTCTGGAGATGGGTGGCTAATGGTATTGGTTCAACAACCTCCACGAAGGTAGGGGTCACG
TCTTGGATCCTTTTGCTTAATCTCAGTGCTCGTTACTTCATGGTCCCAAGATGGCTGCTGTATCCCCAAGAATC
ATGTCTGCGTTCAAGGAAGGAGGGGTGGAGGAAGAGGAAGGGCCAACTAGCTGGACCCGTCACCTTCTATCAGA
AAGTAAAACCTCGTCAGAAGTCTGTTTCTGCTCTCTCCCTCTGCATATCTTCACTTAGATGCCCTTGGCCCCGAG
CCAGCTACCATTGCACCTCTAGCTGCAACAAAGCTAAGACAGCAGGGAACAGAATTGTCATGGCTGAATAGACC
AATCGTGTTCATCTACTGAGACTGGCACACTGCCTCCTGCAATAAACTGGGATCCCCATTACCAAGAGAGAAAT
GCAGAATTGTGTACCAGTTAGCTTTTGTCTGTGTAACAAACCATCCCCAACTTGGCAGCTAGAAACAAACCCTGT
ATTTTCCCACAATCCTATGGGTGGCAATTTGGGCTGGGCTCAACAGGGCAGTTCTGCTGCTCACACCTGGGATC
CCTCATGGAGCTAAGGTCAGCTGTTACCTCAGCTGGGCCTGGATGGTCTAGGATAGCCTTACTCACTTGCCTGGC
AGGTGACAGGCTGTTGGCTGGAATTGCTTGGTTCTCCTCCATGTGGCCTCTCCAGCAGGCTAGCTCAGGCTTATT
CACATGATGGCTTCAGGATTCCAAAGAGAGTGAGAGTAGAAGCTGAAAGACTTCTTGAGTTCTTGGCCTGGAAC
GGGACTAGGACAGTGTCACTTCTGCTAAGTTCTTTGGTCAGAGCAAATCACAAGGCTTTACCCAGATTCAAGGG
ATGAGAAACAGACTACATGTCTTGATGAGGGGAACCAAGAGCTTGTTGGCCATTTTACCTATCACAAATAA
TTTTGGATGGGTATTTATTTGGATAAAGGTATTTCCCTCTTCCCCCTTCTCTCTGTCTATGGGGCCTCACTCT
GCCAAGTTGGAAGGCACTAAGACATTGTCCTGGCCCTCAGGGTCTAGGGGAAGAGGTGTTGGGGCAGGAAGTGAG
TCTCTCCATGGGCTGGACCCACTGTAGTAGGAGTGCCCTCCTTGTCTGCACTGCTGGTATGGGGTTAGGCCAGGTA
GGACATTCCAGAGGGGCTTCTGAAAACCAAGAGTCCCTGGGGAAAGGGAACAGAGTAAGGCAGGCCTTGTTCTCA
CTGCCCTCTAAGGGAACCTTGGTCACTCGGCACTTTTAAGCCTCAGTTTCTCCAGTTCAATAATAAGGACAAGAGC
TTTTCCCATGCATTCTCTTTCCCCGGGAAAGTTGACTGAGGTGACCAGTAATAGAATTGAAAAGGGAGAGTGTCT
TCAGTGCAATGTGGCATCCTGGATTGGGTCTTGGAAACAAAAACAGGACATTAGTGGGAAAATTGGAATCTGAAA
AAAGTCTGAATTTTAGTTAATATACCAATTCAGTCTCTTGGTTTTGACAGATGTACCATGGTGATGTAAGATGT
TGACCTTGGGGTAGGCTGGGTGAAGGTATACAGGAACCTTTGTACTATCTCTGCAACTTCTCTGTAAATCTAG
TATCATTCCAAATAAAAGTTTATTTAATTT

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FIGURE 5645

MGLKSHVLPAPNSQGQSLCIFVYVTSYMDYIQLQGKENLDCSGLNKQKIVFPHSMDSGDGWLMLVQQLHEGRG
HVLDPFALISVLVTSWSQDGCCIPKNHVCVQGRRGGRGRAKLAGPVTFYQKVPRQKSVSCSLPLHIFT

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FIGURE 5646

GTCTGAGCGCGCTCGGCTTTTTTTTTTTTTTCTCTCTCCTTCCCTGCAGCAGTGGCCGGTGTCCAGCTGCCTACT
TTCTGCCCCGATCTCTGGCTCCTCATCTCTCCGGTCTCCGCAGACTAAAGCCCTCGGGATATGCAGCAGCCATGC
CTGTGCACACGCTGAGCCCCGAGCCCCGTCCGCCCCCGCCCTACCTTGCCGCCTGCGGACCAGGGTCCCTGGCT
ACCTGCTACGGGGGCCGGCAGATGGTGGAGCCCCGAAACCGAGCGCTGTGGAGCGCCTGGAGGCCGACAAGGCCA
AGTACGTCAAGAGCCTGCACGTGGCCAACACCCGCCAGGAGCCTGTGCAGCCCCCTGCTGTCCAAACAGCCGCTCT
TTAGCCCTGAGACTCGCCGCACAGTGCTCACGCCAGCCGCCGAGCCCTGCCTGGCCCCCTGCCGACGGCCCCAGC
TGGACCTGGACATCCTCAGCAGCCTCATCGACTTGTGTGACAGCCCCGTGTCCCCTGCCGAGGCCAGCCGCACTC
CTGGACGGGGCCGAGGGAGCCGGCCGTCTCCCCCAGCCACCCCTCCGCGACCGCCGCCAGTACCTCTGCGGTCC
GCCGGGTGGACGTCCGCCCCCTGCCCGCCTCGCCTGCCCGGCCCTGCCCATCACCCGGCCCTGCCGCCGCCTCCA
GCCCAGCCCCGGCCGCCGGGTTTGCAACGCTCCAAGTCGGACTTGAGCGAGCGCTTTTCTAGGGCAGCCGCTGATC
TCGAGCGCTTTTTTAACTTCTGCGGCCTGGACCCGGAGGAGGCGAGAGGGTTGGGTGTGGCCACCTGGCACGGG
CCAGCTCGGATATCGTGTCCTGGCAGGGCCAGTGCTGGGCCGGGCAGCTCTGAAGGGGGCTGCTCCCGCCGCA
GCTCGGTGACTGTTGAGGAGCGGGCCCGGGAGCGCGTTCCCTATGGCGTGTCCGTGGTGGAGCGCAATGCCCGCG
TGATCAAGTGGTTGTATGGGCTAAGGCAGGCTCGGGAGAGCCCAGCAGCTGAAGGCTAGGCGCCACTGGGCCTGG
AATTGCCACAGGACGGATCTTACAGAGGCAAGTGGTCCCTGGACCTCTCTTGATCCATTCTCTAGACGGCCGT
GTCAGAGGCTCCACCCTGTTGTGAACCTGGTATGGAGGCAAAGGCTTAGAGGCTGGACCAGCATTGTTGGGCAAG
GACTGACTCTCAAGGGTTTTGTTCTTGGCTTTGGACACCTGAGAACCCCTCCTCCCCCTCCCCAATAACAAGGT
TTTTGACATGAGTGTACTCCTGCTTAGTTCCCTCTTGTGGGGCTGCATTTGCGGTGCTTTGCCCTCCCCACTGTGA
GTGAGGGGCCAAGGGATCTCCTCAATCCTGTCTCCCCAGCGGCTCTGTTTCTCCTTCCTTCCTTGGCCTCTGTC
CTTTGCTGACTTCCTCTTCCTTACCCAGCAGAACTCACCTGGGGTCGGGGCAGTGGGGAGGGGCCTATCCACTG
CTCTTCCTAGTCCTTGGCAGCTGGCCTAGGTGGGCAGACTATAGGAGGGACTGGTTAGGAGTCTGCATTGCTTTG
ACTTCCCTCTCCTTGGTTAATAAACACAAATGCTTGTTCCTC

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FIGURE 5647

GCAAGAACCAGCGCAAGAGGGGAAGCAGAGTTATAGCTACCCCGGCCGCGGAGCCGGCTCACTGCACTACCCCGC
CCCCTTCTTTCCTCCAGACGCCGAAGTCGCGGGCGCTCATGGCGGGCCTGGAGGTACTGTTTCGCATCGGCAGCGC
CGGCCATCACTGCGAGGCAGGACGCGCTCGTCTGCTTCTTGCAATTGGGAAGTGGTGACACACGGTTACTTCGGCT
TGGGTGTCGGTGACCAGCCGGGTCCCAATGATAAGAAGTCAGAACTGCTGCCAGCTGGGTGGAACAACAATAAG
ACCTGTATGTCTCCGGTATGAGTATAAGGATGGGTCCAGAAAGCTCCTTGTAAGGCCATCACCGTGGAGAGCA
GCATGATCCTCAATGTGCTGGAATATGGCTCACAGCAAGTGGCAGACTTGACCCTGAACCTGGATGATTATATCG
ATGCAGAACACCTGGGTGACTTCCACAGGACCTACAAGAACAGTGAGGAGCTTCGGTCTCGTATTGTGTCTGGAA
TCATCACACCTATCCATGAGCAGTGGGAAAAGGCTAATGTAAGCAGTCCCCACCGGGAGTTCCCCCCTGTAACCG
CCAGAGAGGTGGACCCACTCCGGATTCTCCACACCACCCACACACAGTCCGGCAGCCTCCCTGGTGTGATCCCC
TGGGCCCCGTTTGTGTGCGGGGAGAAAGACTTAGACCCTTTTGGGCCTCGGAGAGGTGGCATGATTGTGGATCCCC
TGAGATCTGGCTTCCCAAGAGCACTTATTGACCCTTCTCAGGCCTCCCGAACCGACTTCTCCAGGCGCTGTGC
CCCCAGGAGCTCGCTTTGACCCCTTTGGACCCATTGGGACCAGCCACCCGGACCTAACCCAGACCATCTCCCCC
CGCCGGGTACGATGACATGTACCTGTGAAGGCCTCAAGAATGTAACATCCAGGCTTCCCTCCATTCTCCTGGA
GCTGCCACCGCTGTCCCATCAGCAACCATGTTCTTGCAAGGCTGGGGGCAAGGGATTCTGCTCATGTGTTTGCA
ACCGGTGGGATAGCCTCCCCACCCCTTATCAGAGCCAAGACACCTGCTGCAGCTCTCCACCTAGCTGCAGATAG
CTCCCAAAGAGAAATCAGTGTGTCTCTTACCATCAGCTCCTCCCTTTTACCACCAGCTCCTCTCCACTTCCC
AAGGGAGACTCCGGCAACCTTCAGCAACATATATCCTCGACCAGATGCAGTGTATAAGAACAGAACGCATTTTG
GATGTTATTATTAAGAACCAAATGTCAATACAGAATTCATGTTGCCGTTTCCCACTTTTCTTTTACATTAATG
CATAGCTGCTTCCATTATGAGACTTTAGAGTTTGAGTTTCTGTAGGGCTGAATGACTCTTTTTCTGCCCCAGGG
CCCATTCTTGCTTCTCAGGCACCTTCCGTTTATTAATTGCCATTGCTCCTGACATCACTAAGATGGGTCCCTTC
TGGCTGCATGAATGGAAATGAGTGACTGGAATCCCATAGGCCACAAGAATGACTTTCACAAGGGCAGGAACATT
GTGAAAAGACTGCATCATCTGTATGAGGCAAAATCCTCCAGCTATTCTGTCTGGGCCAGTTTTGTAGGTCCATC
TGTGCATGGGCAGCAGTAGTCAAAAAGCCAAGGAAAAACAGAGCAGACCTGAAGGCTAATCTTATTTTGCCAC
TAACCTAGTGAAATGACCCTAAGCAAGTTCCTTCTCCTCTTAGGGCCTTGTGCCAAGCCTATGAAATGGAGGTGG
CTTTCCTGCTCTAAAGCATTTTGATGTCTCATTCTGTGTTTGGTAACCCCTATAAACTGGGGCAGAGGAAAAGAA
TGATGGTTCAAGGCCATACTTCCCTTGAACCTTGTGTGTTTCTTGCCCTAACTCTGTGTTTTTGGACCCCATGGG
GCCAGACAGAGCACAGGAGCATGGGCTGCCTCTGAGTGTGGTGTGTAACCTCGGGAGGAGCAGGGAGCCCTGCA
CCTTGTGTCTGGCCACCTGACCTTTGGTGTCTCCGGATCCTTTTCAGCCCGAGGCCTGACAGACGCGGGCAG
TGATGAGCCCTGTTCTGGAGTGGAAAGAGCACGATAGAGCACCAGGCTAAGAGGCACGAGATCAAGGCGGTAGTC
ACTTCCGCTCTGCAGCTAGCATTTCAACCATATGTGGATCCTTTTCACTTCTCAGCTCCCTGGATTCTTCCCTA
AATTAGGACCTATTATTTACCTGTAGGTAAAGCAAGCTACTGTAGCTCTTCTGAGGTATCTGCCAGGCTGTTTTCT
GTAGCCTCAGATTGCCTATCTGCTTAGCCTGAGAACAGGTAGATGAAAACCTAACTGATGCCTAGGCCAGGGTC
AGTCTCAGATGGAAGCTGGGCCTGGGTGGGGAGGCTAGCATGCGTGGCTCCCTGGGTATTTCTGTAGTCCCCAT
GGCAAGCAGTGATTTAGTAAAACACCCAGAGTCAGGGAAGCCAACCACCTTGAAACCTTTAGAACATCTCTGCT
TTGGAGAAAAGACCCAGAGATCAGGCAGAGGTGCAGATTCAATCATTACTCATAACCTTTGAGAGATGGCAAATGG
GAGGAGTGTTAGTCTTTGTTTTGGAATTGGACATTCTTGCAACCAAAAGGACTTAGAGCAGTTTGCTCATAAAG
ACATCCTTTATTATAAAAAGGAAGTATTTAAAGGATGATAGAGACCATCAGATAGAAGCAGGGAAGGTAGATAACT
TTTAGGACCTTGATGTGAGGAAAAGATAAAATTTAAACAATAAATTTGCCACTTAGATTTTCTAGCAGCAAAGTC
CGAAAAGATAGTTATATACAAAATTCTGTTTTCTGAAAACAAAATTGTGATTACCTTCAGAATTGGCCATTTTT
TTTGTGAGTTTCTTGCATCAAGGACACTGAGAAACACAGTCATTGTCTTAGGTGTTCTATGGGAGGAAGTGAAT
AGAGCCTTTAGGAACTTCTGGTCAAGCTTATGGTGCTTATTTTGATCTGGGCCACTTCCCTCCTTCCAGTCATG
AGTAATCATCAAGGAGCAAGTTGGAGTGTTTCAGGTGTATATTTGTAGAACCCTAAAAGATTGGAGCCTTAACAA
TAAACATCAGCACT

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FIGURE 5648

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCCCGCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCACTACACCGGGATGCTTGAAGATGGAAGAAATTTGATTCCCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTGCCCCA
GATGAGTGTGGGTCAGAGAGCCAAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAAACTGGAATGACAGGAATGGCCTCCCTCCCTT
AGCTCCCTGTTCTTGGATCTGCCATGGAGGGATCTGGTGCCCTCCAGACATGTGCACATGAGTCCATATGGAGCTT
TTCCTGATGTTCCACTCCACTTTGTATAGACATCTGCCCTGACTGAATGTGTTCTGTCTCAGCTTTGCTTCCG
ACACCTCTGTTTCTTCCCTTTCTCCTCGTATGTGTGTTTACCTAAACTATATGCCATAAACCTCAAGTTAT
TCATTTTATTTTGTTCATTTTGGGGTGAAGATTGAGTTTCAGTCTTTTGGATATAGGTTTCCAATTAAGTACA
TGGTCAAGTATTAACAGCACAAAGTGGTAGGTTAACATTAGAATAGGAATTGGTGTGGGGGGGGGGTTTGCAAGA
ATATTTTATTTTAAATTTTGGATGAAATTTTATCTATTATATATTAACATTCTTGCTGCTGCGCTGCAAAGC
CATAGCAGATTGAGGCGCTGTTGAGGACTGAATTACTCTCCAAGTTGAGAGATGCTTTGGGTTAAATTAAGG
CCCTACCTAAAACTGAGGTGGGGATGGGGAGAGCCTTGCCTCCACCATTCCCACCCACCTCCCTTAAACCTT
CTGCCTTTGAAAGTAGATCATGTTCACTGCAATGCTGGACACTACAGGTATCTGTCCCTGGGCCAGCAGGGACCT
CTGAAGCCTTCTTTGTGGCCTTTTTTTTTTTTTCATCCTGTGGTTTTTCTAATGGACTTTCAGGAATTTTGTAAATC
TCATAACTTTCCAAGCTCCACCATTCTTAAATCTTAAGAACTTTAATTGACAGTTTCAATTGAAGGTGCTGTTT
GTAGACTTAACACCCAGTGAAAGCCCAGCCATCATGACAAATCCTTGAATGTTCTCTTAAGAAAATGATGCTGGT
CATCGCAGCTTCAGCATCTCCTGTTTTTGTGCTTGGCTCCCTCTGCTGATCTCAGTTTCTGGCTTTTCTCTCC
CTCAGCCCTTCTCACCCTTTGCTGTCTGTGTAGTGATTTGGTGAGAAATCGTTGCTGCACCCTTCCCCCAGC
ACCATTTATGAGTCTCAAGTTTATTATTGCAATAAAAGTGCTTTATGCCGGCTTTTCTCAAAAAAAAAAAAAAA
AAA

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FIGURE 5649

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLLEDGKKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPGIIPPHATLVFDVELLKLE

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FIGURE 5650

GCGACGCGCCGAGGTACTAGGCAGAGCCGTGGAACCGCCGCCAGGTCGCTGTTGGTCCACGCCGCCCGTCGCGCC
GCCC GCCCGCTCAGCGTCCGCCGCCGCCATGGGAGTGCAGGTGGAAACCATCTCCCCAGGAGACGGGCGCACCTT
CCCCAAGCGCGGCCAGACCTGCGTGGTGCCTACACCGGGATGCTTGAAGATGGAAAGAAATTTGATTCTCCCG
GGACAGAAACAAGCCCTTTAAGTTTATGCTAGGCAAGCAGGAGGTGATCCGAGGCTGGGAAGAAGGGGTTGCCCA
GATGAGTGTGGGTGAGAGAGCCAACTGACTATATCTCCAGATTATGCCTATGGTGCCACTGGGCACCCAGGCAT
CATCCCACCACATGCCACTCTCGTCTTCGATGTGGAGCTTCTAAACTGGAATGACCAGGAATGGCCTCCTCCCTT
AGCTCCCTGTTCTTGGGTAAGGAAATGGAATACTGAAGGGCCCTTCACTGCCTTGTCTCTCCCATGTTATGCCC
AGCGTTTGATGGGTAGCAGAGAGAAACAAAAACACCACAAGGCTATTTTTCCCCCTGCATTCTTCTGTATTGAG
TATCCTTTCAGTGTTATTAGTGTATGCTTTGAATGTAAAAATTGGTCACCCTAAGGAAAGGAATTGGCATGTGTA
TGTTCCCAGTTCAACTCATGGAGATGGCAGCTGTTTAAATGTTTTTCTATGTAGTTTATAAAATTAAGTGAATT
GAGGACTATGGAATGTAGGCCAAATTTGTAGTGCCAACATTTTAGTTCTTTGGAATAA

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FIGURE 5651

MGVQVETISPGDGRITFPKRGQTCVVHYTGMLDGKKFDSSDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKL
TISPDYAYGATGHPIIPPHATLVFDVELLKLE

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FIGURE 5652

GGCACGAGGGGCAAGCGGAACGCGGCAGCGGGGCTGGGCCTGTGCGGCGGCCGCCGGAGCGCTTTGGAAGGCGCA
CGGGGCGAAGATGGCGGCGGAGCGACAGGAGGCGCTGAGGGAGTTTCGTGGCGGTGACGGGCGCCGAGGAGGACCG
GGCCCGCTTCTTTCTCGAGTCGGCCGGCTGGGACTTGACAGATCGCGCTAGCGAGCTTTTATGAGGACGGAGGGGA
TGAAGACATTGTGACCATTTTCGACGGCAACCCCCAGTTTCAGTGTCCAGAGGCACAGCCCCCAGTGATAATAGAGT
GACATCCTTCAGAGACCTCATTTCATGACCAAGATGAAGATGAGGAGGAAGAGGAAGGCCAGAGGTTTTATGCTGG
GGGCTCAGAGAGAAGTGGACAGCAGATTGTTGGCCCTCCCAGGAAGAAAAGTCCCAACGAGCTGGTGGATGATCT
CTTTAAAGGTGCCAAAGAGCATGGAGCTGTAGCTGTGGAGCGAGTGACCAAGAGCCCTGGAGAGACCAGTAAACC
GAGACCATTTGCAGGAGGTGGCTACCGCCTTGGGGCAGCACCAGAGGAAGAGTCTGCCTATGTGGCAGGAGAAAA
GAGGCAGCATTCAGCCAAGATGTTTCATGTAGTATTGAACTCTGGAAGAGTGGATTTCAGCCTGGATAATGGAGA
ACTCAGAAGCTACCAAGACCCATCCAATGCCCAGTTTCTGGAGTCTATCCGCAGAGGGGAGGTGCCAGCAGAGCT
TCGGAGGCTAGCTCACGGTGGACAGGTGAAC TTGGATATGGAGGACCATCGGGACGAGGACTTTGTGAAGCCCAA
AGGAGCCTTCAAAGCCTTCACTGGCGAGGGTCAGAACTGGGCAGCACTGCCCCCAGGTGTTGAGTACCAGCTC
TCCAGCCCAACAGGCAGAAAATGAAGCCAAAGCCAGCTCTTCCATCTTAATCGACGAATCAGAGCCTACCACAAA
CATCCAAATTGGCTTGCAGACGGCGGGAGGCTGGTGCAGAAATTTAACCACAGCCACAGGATCAGCGACATCCG
ACTCTTCATCGTGGATGCCCCGGCCAGCCATGGCTGCCACCAGCTTTATCCTCATGACTACTTTCCCGAACAAAGA
GCTGGCTGATGAGAGCCAGACCCTGAAGGAAGCCAACCTGCTCAATGCTGTCATCGTGCAGCGGTTAACATAACC
GCCAGCCAGCTGCCTGGCCTCCCTCCTGTGTTTTCCCATGGCCAGTGGCCATGCCCCATGGGGATCGCCCCCTCCT
GCCCCCTTGTGCACACCCAGCAGTCCAGTGCAACGTCTCCTCCATAGCTCTGGGTTCTTAGATCTTGGTTGGACG
TTTGTCTTCTCCTTAGTTGCAATTTCTGGGTTTTTGTGATGATCAATGGACTTTAATGAAAAAAAAAATAAAAA
CAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5653

MAAERQ~~E~~ALREFVAVTGAEEDRARFFLESAGWDLQIALASFYEDGGDEDIVTISQATPSSVSRGTAPSDNRVTSF
RDLIHDQDEDEEEEEEGQRFYAGGSERSGQQIVGPPRKKSPNELVDDLFGAKEHGAVAVERTKSPGETSKPRPF
AGGGYRLGAAP~~E~~EEESAYVAGEKROHSSQDVHVVLKLWKS~~G~~SLDN~~G~~ELRSYQDPSNAQFLESIRRG~~E~~VP~~A~~ELRRL
AHGGQVNLDMEDHRDEDFVKPKGAFKAFTGEGQKL~~G~~STAPQVLSTSSPAQQAENEAKASSILID~~E~~SEPTTNIQT
RLADGGRLVQKFNHSHRISDIRLFIVDARPAMAATSFILMTTFPNKELADESQT~~L~~KEANLLNAVIVQRLT

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FIGURE 5654

ATGACGGTGGGCAAGAGCAGCAAGATGCTGCAGCATATTGATTACAGGATGAGGTGCATCCTGCAGGACGGCCGG
ATCTTCATTGGCACCTTCAAGGCTTTTGACAAGCACATGAATTTGATCCTCTGTGACTGTGATGAGTTCAGAAAG
ATCAAGCCAAAGAACTCCAAACAAGCAGAAAGGGAAGAGAAGCGAGTCCTCGGTCTGGTGTCTGCGAGGGGAG
AATCTGGTCTCAATGACAGTAGAGGGACCTCCTCCCAAAGATACTGGTATTGCICGAGTTCCACTTGCTGGAGCT
GCCGGGGGGCCAGGGATCGGCAGGGCTGCTGGCAGAGGAATCCAGCTGGGGTTCCCATGCCCCAGGCTCCTGCA
GGACTTGCTGGGCCAGTCCGTGGGGTTGGCGGGCCATCCCAACAGGTGATGACCCACAAGGAAGAGGTACTGTT
GCAGCCGCTGCAGCTGCTGCCACAGCCAGTATTGCCGGGGCTCCAACCCAGTACCCACCTGGCCGTGGGGGTCCT
CCCCCACCTATGGGCCGAGGAGCACCCCTCCAGGCATGATGGGCCACCTCCTGGTATGAGACCTCCTATGGGT
CCCCCAATGGGGATCCCCCTGGAAGAGGGACTCCAATGGGCATGCCCCCTCCGGGAATGCGGCCTCCTCCCCCT
GGGATGCGAGGCCTTCTTTGA

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FIGURE 5655

MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFKIKPKNSKQAEREEKRVLGLVLLRGE
NLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTFQGRGTV
AAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGIPPGRGTPMGMPFPPGMRPPPP
GMRGLL

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FIGURE 5656

GGCACGAGGCTTCTGGCCTTCTCCTGTCAGCAGTTCCCTCAGTCAACATGTACTTCAGATCTTCCTGGGCTTATGT
GCAGAAAATCACTTCCATCCAGGGAATTCTAGCCCCAGGGCATTGGAAACAGCAGGGGCAGCAGTATTCCCATGTA
AGCTGTTGGTTTGAAAAATGCAGAAGGTCAGGAGAGAGGAGGTGGCTCCAAACCCTGGTCTGCAAGGACAGAGGAG
AGAGAAACCTCAAGGGCATTCCCCAGCCCCACTCCAAAGACAGTCAGCAAGTCCTAGAAAAGGCAACATGGTGGTA
GAAACAGAGCCCAGCTCAGCCCCAAAGACCAAACCCTGTGCACTAGACAAAGGCTTGAAGGAATTAGAAACCTTG
AGATTTGGAGCAATCAACTGTAGAGAGTATGAACCGGACCATAACCTGGAATCAAACCTTTATTACAAACCCGAGG
ACCCTCTTAGGGAAGAAGCCCTACATTTGCACTGATTGTGGGCGAAGCTTTAAAGATAGATCAACCCTCATCAGA
CACCATCGTATACACTCGATGGAGAAGCCTTATGTGTGCACTGAGTGCAGGGCGAGGTTTTAGCCAGAAGTCCAAC
CTCAGCAGACACCAGAGAACACATTGAGAAGAGAAGCCTTATTTGTGAGGGAGTGTGGGCAAAGCTTTAGAAGT
AAGTCCATCCTCAATAGACATCAGTGGACTCACTCAGAGGAGAAGCCCTATGTTTGCAGCGAGTGTGGGCGAGGC
TTTAGCGAGAAGTCATCCTTCATCAGACACCAGAGGACACACTCCGGTGAGAAACCCTATGTGTGCTGGAGTGT
GGACGAAGCTTTTGTGATAAGTCAACCCTCAGAAAACACCAGAGGATACACTCAGGGGAGAAGCCTTATGTTTGC
AGGGAGTGTGGGCGAGGCTTTAGCCAGAACTCAGATCTCATCAAACACCAGAGGACACACTTGGATGAGAAGCCT
TATGTTTGCAGGGAGTGTGGGCGAGGCTTTTGTGACAAGTCAACCCTCATCATAACGAGCGGACGCACTCTGGA
GAGAAGCCTTATGTGTGTGGTGTGTGGCCGAGGCTTTAGTCGGAATCACTCCTCCTTGTCCACCAGAGGACA
CACTCAGGGGAGAAGCATTATGTCTGCAGGGAGTGTAGGCGAGGTTTTAGCCAGAAGTCAAATCTCATCAGACAC
CAGAGGACGCACTCAAATGAGAAGCCTTATATTTGCAGGGAATGTGGGCGAGGCTTTTGTGACAAGTCAACCCTC
ATTGTACATGAGAGGACACACTCAGGAGAGAAGCCTTACGTGTGCACTGAGTGTGGCCGAGGCTTTAGCCGGA
TCACTCCTCCTTGTCCACCAGAGGACACACTCAGGGGAGAAGCATTATGTTTGTAGGGAGTGTGGGCGAGGCTTT
AGTCATAAGTCAAATCTCATCAGACACCAGAGGACACACTGACGGGAGAAGCCTGTGTATGCAGGGGTGATGAAC
AAGACCTGAGTGACAGTCAAGCCTCATGTTACCCAGAGAGACACATGGGGAGTAGACCCTGTGTACACAGATT
GTGAGTGAAGTTCAGAGATGTGTGAGCCCTTATCAGGCATGGGAGGGACACGTTGAGGAGAGGAGCCTTATGAG
TATAGAGTACGGGCAACTGTAGCCATCAGTCGGCCTTGAGCATGCACAAAAGGACACACTTAGGAGAGAAGTTTA
TGTGTAGGGACTGTGGGAAGGCTTTAGCAATAATCAACATTTACCAGACATCCAATGACAGCCTCAGGGGAAAGC
ACCCCTGTCTGGGGAGTGTGGGGAGCATCAGTAAAAGAATGGACACTCAGGCACAGAGTGGCCCTCAGGAAGGA
GGTCTTTGTTTGTAGGATGTATGGGCAAAGCTTTTGTGATCACACACCACAGGGAGAATCTGCATGTGGGGACAC
TGTGGAGCTCTGCCAGATGACCTTTTCAGGGGTAACACCCAGCTGCTTGAGAGAACAGTGTGCTGCTGGCAG
AGATGCATTCCAGAGATGCACTCCGCTCTGGAACCTCACTCTCAGCCACAGGGAGCTGCATGCACCACAGGGGCAA
TGCACCTTTGCAGGGGTACCTTCTGGCCCCAACCTTGACTCAACGGGGACAACCTCAGAAGGTCATTCCAGATC
CAGAGATCCCCATCGAAGTGAAGGATCACTGGGTTGCAGACACATTGCAGGTCAGCTTCTTCTCTGCCAGTCC
TGCCCTCACTCCCCAGTGAATCCTCAATTTTCTGTCTCGTTGTCTGTCCAGATAATTGATTCTAAGACATGTTAG
GTATATAAGGAGTGTAGATAAGGCTTCAGCCATGAGTACCCCCAGTAAGCCCCAGAGTATATTGAATAGAAAT
TCTGCATGTGTGGGAGAATGGACAAGGACTTAGGAAAAAGTCTCATCAAAGAACAGCTTTTTTGGGACAAGCT
TTACATGGGTGGGGAGGGAAAAATGTGAAACACATTAGCAATAAGTTAAACCTCATCTTGTACTAAAGGAGGACAC
ACTCAGGGAGAAGACCTCTGTGGGCGAGGCTTGTGGGTGGAGCTTCATCCCGATGTCACTCCTCAACTGACTTAG
GAGGACAGTCTTGCTACCCCAAGTCACTACCTCACTCACCTCTGAGGGATTTTCAGGAAATGCTTGTACTCCCC
ATGTACTCTGTATGTGAGCGAAGATGGCAGTAAGTGTAAATAAGCATTCTTTTCTACTTCTTGAATCAGATGA
AATAAAAAAGCAGGCTTTATTTAAGTAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5657

MVVETEPSSAQRPNPVQLDKGLKELETLRFGAINCREYEPDHNLESNFI TNPRTLLGKKPYICSDCGRSFKDRST
LIRHHRISMEKPYVCSECGRGFSQKSNLSRHQORTHSEKPYLCRECGQSFRSKSILNRHQWTHSEKPYVCSEC
GRGFSEKSSFIRHQRTHSGEKPYVCLECGRSFCDKSTLRKHQRIHSGEKPYVCRECGRGFSQNSDLIKHQRTHL
EKPYVCRECGRGFCDKSTLIIHERTHSGEKPYVCGECGRGFSRKSLLLHQRTHSGEKHYVCRECRRGFSQKSNL
IRHQRTHSNEKPYICRECGRGFCDKSTLIVHERTHSGEKPYVCSECGRGFSRKSLLLHQRTHSGEKHYVCRECG
RGFSHKSNLIRHQRTH

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FIGURE 5658

GATGAGGGTCTGCGGGGCCGCCAAAGGAGCCACGGATCTCACCCACCTGCGGGCTGCAGCAGACTGATCTCCTCC
ACTTCCTTCAGCGCCAGCAGCGCGTAGCCGACCGCGTGCTCAAACAGCACGTGCAACAGCACCTGGAACGGGAGC
CGGGGCGCGAGCGTCAACGCAACCTCAGCGTCTGCGGGAACCCGTTCCCAAGGCGAGGCGCAGGCGCAGGCGCAGG
CCCAGGCCCCAGGCCCCAGGCCCTGTCTGCGGGCCGAACGCAGGCCCCGAAACCCACCCTGCGCTCGCCCGCGCCCC
GCAACCACTCCTCACCATGGCGCCAGCTCCCGGGTTTCGGCTCGCAATGCGGGCTAGCGCGCTCCGGCGCGCGGAAC
CAGGCTCCAGAGGCCACGCCCCCGCCCCCGACCAATCGGAGGCGGGGACGACACCATCTCCGGCCTTTGGAG
GGGCCGCCCAGGGTGGTATCGCCCGGAGCGCGGGCTGGGTGGTGCCGAGCGCGGGCGAGCGGGCCTTTCCGGCC
TCTGCAGCTGCGCGGGCGGGCGTGGTTGCGGGGACGCGCGGGCCCCCGGTGCGGGCACTGCAGGCGCGGAAACGAC
TTGGGAAGGCCCTTTTCGGGGTAATAGTCCGGTTCTGATGTTCTTGTCATATGAGTTACGGGCAGCAGAGCTGGG
TGAAGTCGGGGCGGGAGGTCCGCGTGGGGCGCGGCGTCCATCCCAGACAGAGACCGCTGCCTAGCCGGCTTCCCG
CTTCGTCCGTGGCCTCGGGCCCCAGACCTGCGCCCCACGTCCCCGGGACCCAGGCGTTCCCGTCCCTACTCGG
GGACGAGCCTCCCCGGCGCCGGGTGGGCGGTGCATCCTTTCTCCACCCGTAACGGGAGCGGTGCCTGGCGCGC
TCTGGCGCAGACCCTGCTGGGAATGTAGCTCGCGCAGTTTTCTTCGTACTATTAATTTATTTCTTTTTTTGTTT
TTGGTTTTTTTTTTTTTAAATGACTGTAGCAGGCAGTAACGTGCGAAAGAAAGACGCTCCAGCGTCTTCCTAGGCC
AGTTTCTTGTTGCTGTGCTGCACGGGACCCAGCTCCTTTTGCTGGGCCACGTTGCTCCTCCGCTTGGGCGGCC
CTGAATTCTGGGCGCTGGTGATCGCTGAGTGAATCGCAGCTGCTTCCCTGTCCTTGAGGGCGTCTTTTGGGCACT
CAGGCGACTCTTTAGAAATGAGTTTTGCTTTAATAATTAATTAACGTTATAAATCCAAAACCTAGTTATACTT
AAGTAGCGTATCCCTGGTATGTTTTAAAGAGTCATTGGAAGGGGATTTTTAAAAATAATGTATAGCTATAAACT
GCATTTATACATTTAATTGTTATTTGTTAAGCGATTGAGTTACTTGACAAAATCCAAGTACATAGTTCACTCAC
AAATCTAATATGTCAAACCTAAATGTGGTTGGTAAATCTTACTCTCATAATTTCAATATGGTTTACAGATGTGGT
TGAATCTGTTACACATGTCTACTTACGAGTCAGAATCGTTATTCCATTTAATATTTTAAATGGAATTGCCAAG
TTAATCCATACATTAGCATGTTAAATTATTTTAACCGTCGTGAATACATCAAATAGACGATTCCAAAATGTAAT
GGAAAATACTAATGCTAATACTTCAATTTACTTCATTATTTCTGCCCTTAATCCTGAATCTTCTGGAGTTACAG
GTGCTTATCCACTAAACCAGGGGTTTTCAAGCAAGAAGTCAGAATGCATTAATGGACAGCATTAAAAAAATAGG
ATTGGGTGGGCTATAATCCAGCACTTTAGGAGGCCGAGGCAGGCGGATCACTTAAGATCAGGAGTTTCGAGACCAG
CCTGGCCAACATGGTGAAACCCCGTCTCTACCAAAAAATAAAAAATTAGCTGGACGTGGTGGAGCATGTCTGTA
ATCCAGCTACTCGGGAGGCTGAGGAAGGAGAATCGCTTGAACCCGGGAGGCAGAGGCTGCACTCTAGCCTGGGC
AACAGAGCAAGGCTCTGTC

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FIGURE 5659

MSYGQSQSWKSGREVRVGRGVHPRQRPLPSRLPASSVASGPRPCAPRPRDPGVVPYSGTSLPGAGWAVHFFLPP
VTGAVPGALWRRPCWECSSRSFLRTINLFLFFVFGFFFLNDCSRQ

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FIGURE 5660

CGAACCCGGGAGCTGGCGCCATGGTGCTGTTGCACGTGCTGTTTGAGCACGCGGTTCGGCTACGCGCTGCTGGCGC
TGAAGGAAGTGGAGGAGATCAGTCTGCTGCAGCCGCAGGTGGAGGAGTCTGTGCTCAACCTGGGCAAATTCCACA
GCATCGTTTCGTCTGGTGGCCTTTTGTCCCTTTGCCTCATCCCAGGTTGCCTTGGAAAATGCCAACGCCGTGTCTG
AAGGGGTTGTTTCATGAGGACCTCCGCGCTGCTCTTGGAGACCCACCTGCCGTCCAAAAAGAAGAAAGTACTCTTGG
GAGTTGGGGATCCCAAGATTGGTGCCGCAATACAGGAGGAGTTAGGGTACAACCTGCCAGACTGGAGGAGTCATAG
CTGAGATCCTGCGAGGAGTTTCGTCTGCACTTCCACAATCTGGTGAAGGGTCTGACCGATCTGTCAGCTTGTAAG
CACAGCTGGGGCTGGGACACAGCTATTCCCGTGCCAAAGTTAAGTTTAAATGTGAACCGGGTGGACAATATGATCA
TCCAGTCCATTAGCCTCCTGGACCAGCTGGATAAGGACATCAATACCTTCTCTATGCGTGTCTAGGGAGTGGTACG
GGTATCACTTTCCGGAGCTGGTGAAGATCATCAACGACAATGCCACATACTGCCGTCTTGCCAGTTTATTTGGAA
ACCGAAGGGAAGTGAATGAGGACAAGCTGGAGAAGCTGGAGGAGCTGACAATGGATGGGGCCAGGCTAAGGCTA
TTCTGGATGCCTCACGGTCTCCATGGGCATGGACATATCTGCCATTGACTTGATAAACATCGAGAGCTTCTCCA
GTCGTGTGGTGTCTTTATCTGAATACCGCCAGAGCCTACACACTTACCTGCGCTCCAAGATGAGCCAAGTAGCCC
CCAGCCTGTCAGCCCTAATTGGGGAAGCGGTAGGTGCACGTCTCATCGCACATGCTGGCAGCCTCACCAACCTGG
CCAAGTATCCAGCATCCACAGTGCAGATCCTTGGGGCTGAAAAGGCCCTGTTTCAGAGCCCTGAAGACAAGGGGTA
ACACTCCAAAATATGGACTCATTTTCCACTCCACCTTCATTGGCCGAGCAGCTGCCAAGAACAAAGGCCGCATCT
CCCGATACCTGGCAAACAAATGCAGTATTGCCTCACGAATCGATTGCTTCTCTGAGGTGCCACGAGTGTATTTCG
GGGAGAAGCTTCGAGAACAAGTTGAAGAGCGACTGTCCTTCTATGAGACTGGAGAGATACCACGAAAGAATCTGG
ATGTCATGAAGGAAGCAATGGTTCAGGCAGAGGAAGCGGCTGCTGAGATTACTAGGAAGCTGGAGAAACAGGAGA
AGAAACGCTTAAAGAAGGAAAAGAAACGGCTGGCTGCACTTGCCCTCGCGTCTTCAGAAAACAGCAGTAGTACTC
CAGAGGAGTGTGAGGAGATGAGTGAAAAACCCAAAAAGAAGAAAAGCAAAAGCCCCAGGAGGTTTCTCAGGAGA
ATGGAATGGAAGACCCATCTATCTCTTTCTCCAAACCCAAGAAAAAGAAATCTTTTCCAAGGAGGAGTTGATGA
GTAGCGATCTTGAAGAGACCGCTGGCAGCACCAGTATTCCCAAGAGGAAGAAGTCTACACCCAAGGAGGAAACAG
TTAATGACCCCTGAGGAGGCAGGCCACAGAAGTGGCTCCAAGAAAAAGAGGAAATTCTCCAAAGAGGAGCCGGTCA
GCAGTGGGCCTGAAGAGGCGGTTGGCAAGAGCAGCTCCAAGAAAGAAAAAGTTCCATAAAGCATCCCAGGAAG
ATTAGAATGCAAATGGACATTCTCTGGGAGGTGGGGCATACCATAGCCCAAGGTGACATTCCCACCTGTGCCG
TGTTCCCCAATAAAAAACAAATTCACAAG

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FIGURE 5661

TGATACATCGTTGCTCATTTTGCAGAACATAACAGTTGCACATTGCAAGAGTCAACTTGCTTCGGGTCTTTTCAT
GCTCATGGCGGTATTGAGCGGAGTCCGCTGGCTGACCCGAGCGCTGGTCTCCGCCGGGAACCTGGGGCATGGAG
AGGTCTGAGTACCTCGGCCGCGGCGCACGCTGCATCGCGGAGCCAGGCCGAGGACGTGAGGGTGGAGGGCTCCTT
TCCCGTGACCATGCTTCCGGGAGACGGTGTGGGGCCTGAGCTGATGCACGCCGTCAAGGAGGTGTTCAAGGCTGC
CGCTGTCCCAGTGAGATTCCAGGAGCACCACTGAGTGAGGTGCAGAATATGGCATCTGAGGAGAAGCTGGAGCA
GGTGTGAGTTCCATGAAGGAGAACAAGTGGCCATCATTGGAAAGATTATACCCCGATGGAGTATAAGGGGA
GCTAGCCTCCTATGATATGCGGCTGAGGCGTAAGTTGGACTTATTTGCCAACGTAGTCCATGTGAAGTCACTTCC
TGGGTATATGACTCGGCACAACAATCTAGACCTGGTGATCATTGAGAGCAGACAGAAGGGGAGTACAGCTCTCT
GGAACATGAGAGTGCAAGGGGTGTGATTGAGTGTGTTGAAGATTGTACACGAGCCAAGTCTCAGCGGATTGCAAA
GTTGCGCTTTGACTATGCCACCAAGAAGGGGCGGGCAAGGTCACTGCTGTCCACAAGGCCAACATCATGAACT
TGGGGATGGGTGTTTCTGCAAGTGTGTGAGGAAGTTGCTGAACTGTACCCCAAAATCAAATTTGAGACAATGAT
CATAGACAATGCTGCATGCAGCTGGTGCAGAATCCTTACCAGTTTGATGTGCTTGTGATGCCCAATCTCTATGG
GAACATTATTGACAATCTGGCTGCTGGCCTGGTTGGGGGAGCTGGTGTGGTCCCTGGTGAGAGCTATAGTGCAGA
ATACGCAGTCTTTGAGACGGGTGCCCGGCACCCATTGCCCAGGCAGTGGGCAGGAATATAGCCAATCCCACGGC
CATGCTGCTGTGCGCTTCCAACATGCTGCGGCATCTTAATCTTGAGTATCACTCCAGCATGATCGCAGATGCGGT
GAAGAAGGTGATCAAAGTTGGCAAGGTGCGGACTCGAGACATGGGCGGCTACAGCACCACAACCGACTTCATCAA
GTCTGTATCGGTACCTGCAGACTAAAGGGAGCTAGAGCCCTTTATTTCTTCCAACCTTGCAAGGACCACACTC
CCCATACCCCTTCAGTGCAGTGTACCAGGGAAGAGACCTTGTGCCTCTAAGCAGTGGACCATGGTCAACCCCTTGCT
GGGTAGAGCCTAGGTTGTCCTTGGGCCGGCTTCCTTAGGGGACAGACTGTTGGGTGGTGTGGGGATTGTTAGGA
TGGAGCCAGGCCACATGGATGATGATGATTCTCCCCACAGGTTGCAACCTCTGACATGGGTGGCTATGCTACT
TGCCATGACTTCACTGAGGCTGTCATTGCTGCCTTGCCCCACCCATAGGCCCTGTCCATACCCATGTAAGGTGTT
CAATAAAGAACATGAACCAAAA

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FIGURE 5662

MAVLSGVRWLTRALVSAGNPGAWRGLSTSAAAAHAASRSQAEDVRVEGSFPVTMLPGDGVGPELMHAVKEVFKAAA
VPVEFQEHHLSEVQNMASEEKLQVLSSMKENKVAIIIGKIHTPMEYKGELASYDMRLRRKLDLFANVVHVKSLPG
YMTRHNNLDLVIIREQTEGEYSSLEHESARGVIECLKIVTRAKSQRIAKFAFDYATKKGRGKVTAVHKANIMKLG
DGLFLQCCEEVAELYPKIKFETMIIDNCCMLVQNPYQFDVLVMPNLYGNIIDNLAAGLVGGAGVVPGESYSAEY
AVFETGARHPFAQAVGRNIANPTAMLLSASNMLRHLNLEYHSSMIADAVKKVIKVGKVRTRDMGGYSTTTDFIKS
VIGHLQTKGS

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FIGURE 5663

ATGTGGGGGCTCCTGCTCGCCCTGGCCGCCTTCGCGCCGGCCGTGGGCCCCGGCTCTGGGGGCGCCAGGAACTCG
GTGCTGGGGCTCGCGCAGCCCCGGGACCACCAAGGTCCAGGCTCGACCCCGGCCCTGCATAGCAGCCCGGCACAG
CCGCCGGCGGAGACAGCTAACGGGACCTCAGAACAGCATGTCCGGATTTCGAGTCATCAAGAAGAAAAAGGTCATT
ATGAAGAAGCGGAAGAAGCTAACTCTAACTCGCCCCACCCCACTGGT¹GACTGCCGGGGCCCTTGTGACCCCACT
CCAGCAGGGACCCCTCGACCCCGCTGAGAAACAAGAAACAGGCTGTCTCTCTTTGGGTCTGGAGTCCCTGCGAGTT
TCAGATAGCCGGCTTGAGGCATCCAGCAGCCAGTCCTTTGGTCTTGGACCACACCGAGGACGGCTCAACATTCAG
TCAGGCTTGGAGGACGGCGATCTATATGATGGAGCCTGGTGTGCTGAGGAGCAGGACGCCGATCCATGGTTTCAG
GTGGACGCTGGGCACCCCACCCGCTTCTCGGGTGTTATCACACAGGGCAGGAACTCTGTCTGGAGGTATGACTGG
GTCACATCATACAAGGTCCAGTTTCAGCAATGACAGTCGGACCTGGTGGGGAAGTAGGAACCACAGCAGTGGGATG
GACGCAGTATTTCTGCCAATTTCAGACCCAGAACTCCAGTGTGAACCTCCTGCCGGAGCCCCAGGTGGCCCCGC
TTCATTTCGCTGTGCCCCAGACCTGGCTCCAGGGAGGCGCGCCTTGCCCTCCGGGCAGAGATCCTGGCCTGCCCA
GTCTCAGACCCCAATGACCTATTCTTGGAGGCCCTGCGTCGGGATCCTCTGACCCCTCTAGACTTTTCAGCATCAC
AATTACAAGGCCATGAGGAAGCTGATGAAGCAGGTACAAGAGCAATGCCCAACATCACCCGCATCTACAGCATT
GGGAAGAGCTACCAGGGCCTGAAGCTGTATGTGATGGAAATGTCGGACAAGCCTGGGGAGCATGAGCTGGGGGAG
CCTGAGGTGCGCTACGTGGCTGGCATGCATGGGAACGAGGCCCTGGGGCGGGAGTTGCTTCTGCTCCTGATGCAG
TTCCTGTGCCATGAGTTCCTGCGAGGGAACCCACGGGTGACCCGGCTGCTCTCTGAGATGCGCATTACCTGCTG
CCCTCCATGAACCTGATGGCTATGAGATCGCCTACCACGGGGTTCAGAGCTGGTGGGCTGGGCCGAGGGCCGC
TGGAACAACCAGAGCATCGATCTTAACCATAATTTTGTGACCTCAACACACCACTGTGGGAAGCACAGGACGAT
GGGAAGGTGCCCCACATCGTCCCCAACCATCACCTGCCATTGCCCACTTACTACACCTGCCCAATGCCACCGTG
GCTCCTGAAACGCGGGCAGTAATCAAGTGGATGAAGCGGATCCCCTTTGTGCTAAGTGCCAACCTCCACGGGGGT
GAGCTCGTGGTGTCTTACCCATTTCGACATGACTCGCACCCCGTGGGCTGCCCGCGAGCTCACGCCCACACCAGAT
GATGCTGTGTTTCGCTGGCTCAGCACTGTCTATGCTGGCAGTAATCTGGCCATGCAGGACACCAGCCGCCGACCC
TGCCACAGCCAGGACTTCTCCGTGCACGGCAACATCATCAACGGGGCTGACTGGCACACGGTCCCCGGGAGCATG
AATGACTTCAGCTACCTACACACCAACTGCTTTGAGGTCACTGTGGAGCTGTCTGTGACAAGTTCCCTCACGAG
AATGAATTGCCCCAGGAGTGGGAGAACAACAAGACGCCCTCCTCACCTACCTGGAGCAGGTGCGCATGGGCATT
GCAGGAGTGGTGAGGGACAAGGACACGGAGCTTGGGATTGCTGACGCTGTCATTGCCGTGGATGGGATTAACCAT
GACGTGACCACGGCGTGGGGCGGGGATTATTGGCGTCTGCTGACCCAGGGGACTACATGGTGAAGTGGCAGTGCC
GAGGGCTACCATTCAGTGACACGGAACGTGCGGGTCACCTTTGAAGAGGGCCCTTCCCCTGCAATTTCTGTGCTC
ACCAAGACTCCCAAAACAGAGGCTGCGCGAGCTGCTGGCAGCTGGGGCCAAGGTGCCCCCGGACCTTCGAGGGCGC
CTGGAGCGGCTAAGGGGACAGAAGGATT**TGA**

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FIGURE 5664

MWGLLLALAAFAVGPALGAPRNSVLGLAQPGTTKVPGSTPALHSSPAQPPAETANGTSEQHVIRIRVIKKKKVI
MKKRKKLTLTRPTPLVTAGPLVTPTPAGTLDPAEKQETGCPPLGLESRLVSDSRLEASSSQSFGLGPHRGRLNIQ
SGLEDGDLYDGAWCAEEQDADPWFQVDAGHPTRFSGVITQGRNSVWRYDWVTSYKVQFSNDSRTWWGSRNHSSGM
DAVFPANSDETPVLNLLPEPQVARFIRLLPQTWLQGGAPCLRAEILACPVSDPNDLFLEAPASGSSDPLDFQHH
NYKAMRKLKQVQECPNITRIYSIGKSYQGLKLYVMEMSDKPGEHELGEPEVRYVAGMHGNEALGRELLLLLMQ
FLCHEFLRGNPRVTRLLSEMRIHLLPSMNPDGYEIAHYHRGSELVGWAEGRWNNQSIDLNHNFADLNTPLWEAQDD
GKVPHIVPNHHLPLPTYTLPNATVAPETRAVIKWMKRIPFVLSANLHGGELVVSYPFDMTRTPWAARELTPTPD
DAVFRWLSTVYAGSNLAMQDTSRRPCHSQDFSVHGNIINGADWHTVPGSMNDFSYLHTNCFEVTVELSCDKFPHE
NELPQEWENNKDALLTYLEQVRMGIAGVVRDKDTELGIADAVIADVGINHDVTTAWGGDYWRLLTPGDYMTASA
EGYHSVTRNCRVTFEEGPFPFCNFVLTKTPKQRLRELLAAGAKVPPDLRRRLERLRGQKD

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FIGURE 5665

GCTGTGAGGCTCGGAGTCGCCGGAGGAGCCAGTATCTGTGTCGCCGCCGCCGCCGCCGCGTCCCCGGTTTGGTGCTG
CGGCGCCCACTTCGGGAGGATCAGTATCTGGCACCAATTCTGACCCAGTCATTTGTGATCCCTGGCTCTTGTGA
TATGCTGAAGATTTCCAGGCAGTTTTTGTGGAACACCTCCCCGTCCAGCTCTAATCAAGCACCATATAAACAAGA
AATTGCCTGGTCAAACTCTGTGAGGACTGTATTCTGACTGCCAAAGAGATCAATACTGACACCAGAATGGCAGCTA
CTCTCAAGTCATTAAAACTTGTAAGATACCGAGCATTTCGAGTCCTTCTGCCTTTGGTGAGTCCGAAGTGTGT
CATACTGGAATGTGAGCAGCACACAGCATGGGGGACAGGACCCTCCAGAACACATTAGCCTCTGCCATTCTGCCA
AAAAAGTTAAGAACATATGTAGCACCTTCTCTTCTCGGAGAATCCTGACAACCAGCAGTGCCCAACCAGGTTTGG
AATTCAGCAAGACTTCTTCTCTAAGGCCAGTACATTGCAGCTGGGCTCACCCAGGGCCACAGGAGTTGATGAAG
AGGACGTAGAAGTGTTTGATTCTTTGAAAACATGCGAGTTTTCTACAGCTAAGACCAGAATACCGTGTTTACA
GCTATAATGCATCTGAGACTTCTCAGCTCCTGTCTGTTTTCAGAAGGTGAATAATTTGCACAAAGTCAGAGTTA
ATCAAAATAATCTCCAGGCTCAAGTCATTGTTGATTATTTGTGTAAGCTGAGCTCTTTCCTGCAGAGCAGCATC
CTGTCTTGCTGGGAGTACCAGCTTTGCTCTGCTCTGCCAGCTGAGTGTGAAGAAGATACAGCTCTTGATAACC
AAGATCTGATCAATGTTTTGAAAGCTTTTGTCAATTTAGGAATCCCTCACTCCCATCAATGCTAGATGTGTATG
AGACCAAGTGTTGCCATCAGGTATGGGAGATGAATATGGATCAGCTCCTTTTGGTGGCTGATCTCTGGAGGTACT
TAGGCCGCAAAGTACCTAGGTTTTTAAACATTTTTCTAGTTATCTTAATTTGCACCTGGAAGGATCTATCCTTGT
CTCAGCTAGTTCACCTAATTTATGTTATAGGTGAAAATCGTCAGGTATCCCAGGACCTAATGCAAAAATTGGAAT
CATTGATCCTTAAATATATAGATTTGATCAATTTGGAGGAGTTGGTACCATCTGTTTGGGGTTCTTTAAATCAA
GTACTAATCTCTGAATTTGTATGCGGAAAATTGGAGACTTGGCTTGTGCTAACATTCAGCATCTGAGTAGTC
GCTCCTTAGTGAATATTGTTAAAATGTTCCGTTTCACTCACGTGGATCACATCAATTTTATGAAGCAGATTGGAG
AGATAGCTCCTCAGCGAATTCCTTCCCTGGGAGTTCAAGGTGTATGCACCTGACTCTTTACTGCTCGGCCTTAC
GCTTCTGAATGAAGGAGTAATGAATGCAGTGGCTGCGTCTTTGCCTCCTAGAGTGGCACACTGTCTGAAGTAAAG
ATGTTGCCAAGATTCTGTGGTCATTTGGAATCTGAATTATAAGCCACCCAATGCAGAAGAAATTTACTCCAGCC
TGATAAGTGAGATTCACAGAAAGATGCCTGAATTCACCAGTACCCAGAACACCTGCCACCTGCCTGCTGGGCC
TGGCATTITTTGGAGTACTTTCCAGTAGAGTTAATTGATTTGCTCTCAGTCCAGGGTTTGTGAGTTAGCTCAGG
AGAGAACTAAGTTTGACCTCCTTAAGGAACTATATACCTCGATGGTACAGTTGGCATTGAGTGTCCAGATTACA
GAGGCAATCGTCTTAGTACTCACCTTCAGCAAGAGGGGTCTGAATTGCTGTGGTATTTAGCAGAGAAGGATATGA
ATTCAAAGCCTGAATTCCTAGAACTGTCTTTTACTGGAGACCATGCTGGGGGGGGCCAGTACGTCAAGCACC
ATATGATTTTGCTCATACCCGATCTTCTGACTTAGAAGTCCAGCTTGATGTTAACCTGAAGCCATTACCATTTA
ATAGAGAAGCCACGCCGGCTGAAAATGTAGCCAAATTAAAGGCTTGAGCATGTGGGAGTCAGCCTTACAGATGATT
TGATGAATAAGTTACTAAAAGGGAAAGCAAGAGGACATTTCCAGGGCAAACTGAGTCAGAGCCTGGGCAGCAGC
CCATGGAGTTGGAGAATAAGGCAGCTGTACCTCTGGGGGGCTTCTTTGCAATGTAGCAGATAAATCAGGGGCCA
TGGAGATGGCTGGCCTGTGCCCCGAGCCTGCATGCAGACCCCAAGAATGAAGCTGGCTGTTTCAAGTTACAAAACA
GGAACCAGTATTGCTATGGCTCCAGGGATCTCCTTGGACTGCACAATATGAAGAGGCGGCAGCTGGCTCGGCTTG
GCTACCGTGTGGTAGAGTTATCCTACTGGGAATGGCTCCCACTACTGAAACGAACCTCGCTTAGAAAAGTTGGCGT
TTCTTATGAGAAAAGTATTCACCTCTGCTCTCTGGAAGGGCATTAGGGGGCATTCTATGGCAAAGCTATAGGTGT
ATACTGTACCAGGTGTTGCAAAATGATTATAAAAGCCAGAATGTAAGTTTGGCGATAAAATAGTGTGTTGAGGAG
ACTTAATTGTATCCAAGGCAGGTTAGAGCTAGTGTATGTTACTGTGAATTGTAATGTAGTTGGATTGTACAAATT
ACTGCAATGTATACATGTTACTCTTAGTAAATAATAAACATCTTAATATGTCCTACGGTC

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FIGURE 5666

MAATLKSLKLVRYRAFCSPSAFGAVRSVSYWNVSSTQHGGQDPPEHISLCHSAKKVKNICSTFSSRRILTTSSAH
PGLFESKTSSSKASTLQLGSPRATGVDEEDVEVFDSFENMRVFLQLRPEYRVHSYNASETSQLLSVSEGELIILHK
VRVNQNNLQAQVIVDYLCKLSSLPAEQHPVLLGSTSFALLCQLSVKKIQLFDTQDLINVLKAFVILGIPHSHSML
DYYETKCCHQVWEMNMDQLLLVAIDLWRYLGRKVPRFLNIFSSYLNHLWKDLSLSQLVHLIYVIGENRQVSQDIMQ
KLESLILKYIDLINLEEVGTICLGFFKSSTNLSEFVMRKIGDLACANIQHLSSRSLVNIVKMFRFTHVDHINFMK
QIGEIAPQRIPSLGVQGMHLTLYCSALRFLNEGVMNAVAASLPPRVAHCRSKDVAKILWSFGTLNYPNAEEF
YSSLISEIHRKMPEFNQYPEHLPTCLLGLAFLEYFPVELIDFALS PGFVRLAQERTKFDLLKELYTLDGTVGIEC
PDYRGNRLSTHLQQEGSELLWYLAEKDMNSKPEFLETVFLLETMLGGPQYVKHHMILPHTRSSDLEVQLDVNLKP
LPFNREATPAENVAKLRLEHVGVSLTDDL MNKLLKGKARGHFQKTESEPGQPMELNKA AVPLGGFLCNVADK
SGAMEMAGLCPAACMQTPRMKLAVQFTNRNQYCYGSRDLLGLHNMKRRQLARLGYRVVELSYWEWLPLLKRTRLE
KLAFLHEKVFTSAL

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FIGURE 5667

CCTGGCCGGAAACTGAGCCGTTCACTTCCGCCACCAGCCGGAAGTTTTCTGTCACTGGACGCCAAGGAGTTTTCG
GTGGCTCAGCTGGGTAAACGGGGATCACCATGGCGGCCTCATTGGTGGGGAAGAAGATCGTGTTTGTAACGGGGA
ACGCCAAGAAGCTGGAGGAGGTCGTTTCAATTCTAGGAGATAAGTTTTCCATGCACTTTGGTGGCACAGAAAATTG
ACCTGCCGGAGTACCAGGGGGAGCCGGATGAGATTTCCATACAGAAATGTCAGGAGGCAGTTCGCCAGGTACAGG
GGCCCGTGCTGGTTGAGGACACTTGTCTGTGCTTCAATGCCCTTGGAGGGCTCCCCGGCCCCACATAAAGTGGT
TTCTGGAGAAGTTAAAGCCTGAAGGTCTCCACCAGCTCCTGGCCGGGTTCGAGGACAAGTCAGCCTATGCGCTCT
GCACGTTTGCACTCAGCACCGGGGACCCAAGCCAGCCCGTGCCTGTTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
TGGCACCCAGAGGCTGCCAGGACTTTGGCTGGGACCCCTGCTTTTTCAGCCTGATGGATATGAGCAGACGTACGCAG
AGATGCCTAAGGCGGAGAAGAACGCTGTCTCCATCGCTTCCGGGCCCTGCTGGAGCTGCAGGAGTACTTTGGCA
GTTTGGCAGCTTGACTTCTGCAGCTGGAGGAGGCCCTCAGGCCGGGGATCTGGGGAGGGCTAGCCCCAAAACCTC
CCGCATCGGGCAGGCACCCCTGAAGTACTTCTTTCAGGGTTTCCCTTTTGTGAGGGTGTGAGTAGCCTCACCG
GCCTGTCTGGAGGAGCAGCTGGCTCTGCTCTGAGAACTCTGGCAAGTGGACGCCATTCTCTTGGCCCTTAGGATT
CACTGCTCTCTCTACAGCCGCCAGGCCTGGGGTCTGAAAGGACCTTGGGTGGTAAAGCTGTACTTGGTGGGAG
TGAGGGCGTGGGGAGGAACCATGCAAATCGCCTTCCATGGTTTTTAAATGCAGTAAATAACATTCTGGATGAGA
CTTGTTCCTAAAATAAACAGCTATATCTGTTTTG

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FIGURE 5668

GTGCTCGGCGTTGAGCTCCTGCAGCCGCCGCCGCTGCAGTGGTTCGTCCCTGCCCTCCCCGGCCCCGGGGTGCACC
CCGCAAGGCTCCCGCTGGTGTCCCTGGAGCATGGGAGGCTGCTGAGCGTGAGTGGCGGTGTCTGGCAGGAGCTGC
GTGGCAGGGAGGGCGTCC**ATGG**CTGCAGCCAACAAGGGCAACAAGCCCAGAGTCCGGGGTATCCGCTTTGCGGCA
GGCCACGATGCAGAAGGATCCACAGCCACGTCCACTTTGATGAGAAGCTGCATGACTCGGTGGTCATGGTCACC
CAGGAGAGTGACAGCAGCTTTCTGGTCAAGGTTGGCTTCCTGAAGATCCTGCACAGGTATGAGATTACCTTCACT
CTGCCCCCAGTGCACAGGCTGAGCAAGGATGTCCGCGAGGCACCTGTCCCCAGCCTGCACCTCAAGCTCCTCAGC
GTGGTGGCCGTCCCTGAAGGTTATAGTGTCAAGTGTGAGTACTCGGCGCACAAAGAGGGCGTCCCTCAAAGAGGAG
ATACTGCTAGCCTGCGAAGGTGGCACTGGCACCTGTGTGCGCGTGACGGTGCAGGCCCGCGTCATGGACCGGCAC
CACGGCACGCCCATGCTGCTGGATGGTGTCAAGTGTGTGGGCGCCGAGCTGGAATACGACTCAGAGCACAGCGAC
TGGCACGGCTTTGACT**TGA**GGCCCCGAGGCCCGCCTGCCCGGGCCCCCTCAGCCTTAAACCCCGCCTTGTCCCCC
GACATGCTGCGTGATGGTGTGGCTTCCTCGCCCCCTCTCTGGGGTGGGTGTGGGGGTGGAGTGGCCTTGCCACGC
CTCTACCTCTGCCTTCATTTGTGCTGCCACCCTGCCCTCCCTCGTCTCTCTCTCCCACTTCCTCCTCTCTGTG
TGCTCAGTCTCCTGCCGAAGAAATGGGTTGATCCCGAAAGGAGGCTGTCTGAGGAAGGGAGAGGGAGGGCCTG
GGGTGGGTCCCCCACTCCCCACCCCAAGCCACAGGGACTCCCACCAGGGTCTGGGAGAGGACGGAGCTGGCTCTG
TGGCGTCGTGGCCCCATTACTGCTGCCTTGCTTCAGCCACCTCTCCTGCCCTCCCTAGTCCCCACTGCTGTCCA
CCATGAGTAGGAGGGAGGTGCAGTCCCCAGCCCCACCCCTCAGGTCTGTGTTACTTGGTTTTTAAGCGACTGGT
TGGGATAGAACCCTAAAGAAATAAACTTCCAGTGGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 5669

MAAANKGNKPRVRGIRFAAGHDAEGSHSHVHFDEKLHDSVVMVTQESDSSFLVKVGFLKILHRYEITFTLPPVHR
LSKDVREAPVPSLHLKLLSVVPVPEGYSVKCEYSAHKEGVLKEEILLACEGGTGTCVRVTVQARVMDRHHGTPML
LDGVKCVGAEELEYDSEHSDWHGFD

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FIGURE 5670

ACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGG
AACACGATCTGGTTTCATGTGACCAGGAAGAACCACGCCAGGATTGGAGGTTTCCAAGAGGCCCCCACC GTGGAA
GTAACCAAGGGCGCTTCCTTGTGGGCAGCTGCAGGCCCATGCCTCTCCTCCCTCTCTGGCAGGGCCCCATCCTG
GGCAGAGGGGCCTGGGGCTGGGCCCAGAGTCCAGCCGTCCAGCTGCTCCTTTCCAGTTTGATTTCATAAATCT
GTCCACTCCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5671

CGACAGCTGACGTTCCGGGAGAAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGACCTGCGCAAGGGCGAG
ATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGCGCCATCCTGGCGTCG
GAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGACAAGCTCGAGGGCTTG
CTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATTATCCTCAAGGAGAAGGCCTG
CGCATAGCCGAGGAGCTGGGCATGGACGACTTACCGCCTCCAACGGCTGGCTGGACCGCTTCCGCCGGCGCCAC
GGCGTGGTGTCTGTCAGCGGCGTGGCCCGCGCCGCGCGGAAACGCTGCCCCCGCACCCCGCGGCGCCTGCC
AGTCCGGCCGCGGTGCCCTCGGAGGGCAGTGGCGGGAGCACTACTGGTTGGCGCGCTCGGGAGGAGCAGCCGCCG
TCGGTGGCCGAGGGCTACGCTCGCAGGACGTGTTACGCGCCACCGAGACCAGTCTATGGTACGACTTCTTGCCC
GACCAGGCCGCGGGGCTGTGCGGAGGCGACGGACGGCCGCGTCAAGCCACCCAGCGCCTGAGCGTCTGCTATGC
GCCAATGCCGACGGCAGCGAGAAGCTGCCCCGCTGGTGGCCGGCAAGTCGGCCAAGCCCCGCGCAGGCCAAGCC
GGCCTGCCCTGCGACTACACCGCCAACTCCAAGGTGGTGTACCACCCAGGCCCTGGCCAAGTACTTGAAGGCC
TTGGACACCCGAATGGCTGCAGAGTCTCGCCGGGTCTGCTGTTGGCCGGCGCTTGGCTGCCCAGTCCCTGGAC
ACCTCGGGCCTGCGGCATGTGCAGCTGGCCTTCTTCCCTCCCGGCACCGTGCATCCGCTGGAGAGGGGAGTGGTC
CAGCAGGTGAAGGGCCACTACCGCCAGGCCATGCTGCTCAAGGCCATGGCCGCGCTAGAGGGCCAGGATCCCTCA
GGCCTGCAGCTGGGTCTCACGGAGGCCCTGCACTTTGTGGCTGCCGCCCTGGCAGGCAGTGGAGCCTTCGGACATA
GCCGCCTGCTTTCGTGAGGCTGGCTTTGGGGTGGCCCTAATGCCACCATCACCATTCCCTCAAGAGTGAGGGA
GAGGAAGAGGAGGAGGAGGAGGAAGAAGAGGAGGAGGAAGAGGGTGAAGGAGAGGAAGAGGAGGAGGAAGGGGAG
GAGGAGGAGGAGGAAGGGGGGGAAGGAGAGGAATTGGGGGAGGAAGAGGAGGTGGAGGAGGAGGGTGATGTTGAT
AGTGATGAAGAAGAGGAGGAAGATGAGGAGAGCTCCTCGAGGGCTTGGAGGCTGAGGACTGGGCCCAGGGAGTA
GTGGAGGCCGCTGGCAGCTTCGGGGCTTATGGTGCCAGGAGGAAGCCAGTGCCTACTCTGCATTTCTGGAA
GGTGGGGAGGACTCTGATTGAGACAGTGAGGAAGAGGACGATGAGGAAGAGGATGATGAAGATGAAGACGACGAT
GATGATGAGGAGGATGGTGATGAGGTGCCTGTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAG
AGGTACCTGACCTCCTTCCCCATTGATGACCGCGTGCAGAGCCACATCCTCCACTTGGAACACGATCTGGTTTCA
GTGACCAGGAAGAACCACGCCAGGCAGGCGGGAGTTCGAGGTCTTGACATCAAAGCTGAGTCACTGGACCTAGC
TGTGCCCCAACCTAGATTGGCAGCACCACCCAGGGCAGAGGACTCTTGGGCACCCGCTGTGCATGGAGCCAG
AGTGACAGAGCCCCAGATCCTTTAGTAATGCTTCCCTGGTCTGCAACAGGCCCGGTACCTCGGCCGGGCCCCGG
GGCTGAGGTGAGCCTCACTGCCTGCTTATTGCCTCTTTCTCAGAATCCTCTTCTCCTCCCCATTTGGCCCTGGGCT
CAGGGGACCAGGTGGGGCGGGTGGGGAGCTGTCCGGTGCTACCACACCGTGCCCTCAGTGGACTAACCACAGCAG
CAGCCAGGGATGGGCCCTGGAGGTTCGCCGGCGGAGAGTGCCCTCTCCCTCTGCCATCCACGTCAGGTCTTTGGT
GGGGGACCCCAAAGCCATTCTGGGAAGGGCTCCAGAAGAAGGTCCAGCCTAGGCCCTGCAAGGCTGGCAGCC
CCCACCCACCCCCAGGCCGCTTGAGAAGCACAGTTTAACTCACTGCGGGCTCCTGAGCCTGCTTCTGCCTG
CTTTCCACCTCCCCAGTCCCTTTCTTGGCCCTGTCCATGTGACTTTGGCCCTTGGTTTTCTTTCCAGATTGGAG
GTTTTCAAGAGGCCCCCACCCTGGAAGTAACCAAGGGCGCTTCCCTGTGGGCAGCTGCAGGCCCATGCCTCTC
CTCCCTCTTGGCAGGGCCCCATCCTGGGCAGAGGGGCTGGGGCTGGGCCAGAGTCCAGCCGTCCAGCTGCTC
CTTTCCAGTTTGATTTCAATAAATCTGTCCACTCCCTTTTGTGGGGGTGAACGTTTTAACAGCC

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FIGURE 5672

MDDFTASNGWLD RFRRRHGVVSCSGVARARARNAAPRTPAAPASPAAVPSEGS GGSTTGWRAREEQPPSVAEGYA
SQDVFSATETSLWYDFLPDQAAGLCGGDGRPRQATQRLSVLLCANADGSEKLPPLVAGKSAKPRAGQAGLP CDYT
ANSKGGVTTQALAKYLKALDTRMAAESRRVLLL AGR LAAQSLDTSGLRHVQLAFFPPGT VHPLERGVVQQVKGHY
RQAMLLKAMAALEGQDP SGLQLGLTEALHFVAAAWQAVEPSDIAACFREAGFGGGPNATITTS LKSEGE EEEEEEE
EEEEEEEGEGEEEEEEEGEEEEEEEGGEGEELGEEEEVEEEGDVDSDEEEEEDEESSEGLEAEDWAQGVVEAGGSF
GAYGAQEEAQCP TLHFLEGGEDSDSDSEEDDEEEDDEDEDDDDDEEDGDEVPVPSFGEAMAYFAMVKRYLTSFP
IDDRVQSHILHLEHDLVHVTRKNHARQAGVRGLGHQS

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FIGURE 5673

ATGGGCCCCAAGAGGCGACAGCTGACGTTCCGGGAGAAGTCACGGATCATCCAGGAGGTGGAGGAGAATCCGGAC
CTGCGCAAGGGCGAGATCGCGCGGCGCTTCAACATCCCGCCGTCCACGCTGAGCACGATCCTGAAGAACAAGCGC
GCCATCCTGGCGTCGGAGCGCAAGTACGGGGTGGCCTCCACCTGCCGCAAGACCAACAAGCTGTCTCCCTACGAC
AAGCTCGAGGGCTTGCTCATCGCCTGGTTCCAGCAGATCCGCGCCGCCGGCCTGCCGGTCAAGGGCATCATCCTC
AAGGAGAAGGCGCTGCGCATAGCCGAGGAGCTGGGCATGGACGACTTCACCGCCTCCAACGGCTGGCTGGACCGC
GTACCCAGCTTTGGGGAGGCCATGGCTTACTTTGCCATGGTCAAGAGGTACCTGACCTCCTTCCCCATTGATGAC
CGCGTGCAGAGCCACATCCTCCACTTGGAACACGATCTGGTTCATGTGACCAGGAAGAACCACGCCAGGCAGGCG
GGAGTTCGAGGTCTTGGACATCAAAGCTGA

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FIGURE 5674

AGAGGCTTCCCTGGCTGGTGCCTGAGCCCGGCGTCCCTCGCCCCCGCCCTCCCCGCATCCCTCTCCTCCCTCGC
GCCTGGCCCTGTGGCTCTTCCCTCCCTCCTTCCCCCCCCCCCCACCCCTCGCCCGCTGCCTCCCTCGGCCCA
GCCAGCTGTGCCGGCGTTTGTGGCTGCCCTGCGCCCGGCCCTCCAGCCAGCCTTCTGCCGGCCCCGCCGCGATG
GAGGTGCCCCAGCCGGAGCCCGCGCCAGGCTCGGCTCTCAGTCCAGCAGGCGTGTGCGGTGGCGCCAGCGTCCG
GGCCACCTCCCGGGCCTCCTGCTGGGATCTCATGGCCTCCTGGGGTCCCCGGTGGGGCGGCCGCTTCCCTCGCCG
GTCACCACCCTCACCCAGACCATGCACGACCTCGCCGGGCTCGGCAGCCGCAGCCGCTGACGCACCTATCCCTG
TCTCGACGGGCATCCGAATCCTCCCTGTGCTCTGAATCCTCCGAATCTTCTGATGCAGGTCTCTGCATGGATTCC
CCCAGCCCTATGGACCCCCACATGGCGGAGCAGACGTTTGAACAGGCCATCCAGGCAGCCAGCCGGATCATTGCA
AACGAGCAGTTTGCCATCAGACGCTTCCAGTCTATGCCGGTGAGGCTGCTGGGCCACAGCCCCGTGCTTCGGAAC
ATCACCAACTCCCAGGCGCCCGACGGCCGGAGGAAGAGCGAGGCGGGCAGTGGAGCTGCCAGCAGCTCTGGGGAA
GACAAGGAGAATGTGCGCTTCTGGAAGGCCGGGGTGGGAGCTCTCCGGGAAGAGGAGGGGGCATGCTGGGGTGGT
TCCCTGGCATGTGAGGACCCTCCTCTCCCATCTTGGCTGCAGGATGGATTGTCTTCAAGATGCCATGGAAGCCC
ACACATCCCAGCTCCACCCATGCTCTGGCAGAGTGGGCCAGCCGCAGGGAAGCCTTTGCCAGAGACCCAGCTCG
GCCCCGACCTGATGTGTCTCAGTCCTGACCGGAAGATGGAAGTGGAGGAGCTCAGCCCCCTGGCCCTAGGTTCGC
TTCTCTCTGACCCCTGCAGAGGGGGATACTGAGGAAGATGATGGATTGTGGACATCCTAGAGAGTGACTTAAAG
GATGATGATGCAGTTCCCCCAGGCATGGAGAGTCTATTAGTGGCCCACTGGTCAAGACCTTGGAAAAGGAAGAG
GAAAAGGACCTCGTCATGTACAGCAAGTGCCAGCGGCTCTTCCGCTCTCCGTCCATGCCCTGCAGCGTGATCCGG
CCCATCCTCAAGAGGCTGGAGCGGCCCCAGGACAGGGACACGCCCGTGCAAGAATAAGCGGAGGCGGAGCGTGACC
CCTCTGAGGAGCAGCAGGAGGCTGAGGAACCTAAAGCCCGCTCCTCCGCTCAAAATCACTGTGTACGATGAG
ATCGAGAACCTCCTGGACAGTGACCACCGAGAGCTGATTGGAGATTACTCTAAGGCCTTCTCTACAGACAGTA
GACGGAAAGCACCAAGACCTCAAGTACATCTCACCAGAAACGATGGTGGCCCTATTGACGGGCAAGTTCAGCAAC
ATCGTGGATAAGTTTGTGATTGTAGACTGCAGATACCCCTATGAATATGAAGGCGGGCACATCAAGACTGCGGTG
AACTTGCCCCCTGGAACGCGACGCCGAGAGCTTCTACTGAAGAGCCCCATCGCGCCCTGTAGCCTGGACAAGAGA
GTCATCCTCATTTTCCACTGTGAATTCTCATCTGAGCGTGGGCCCCGCATGTGCCGTTTCATCAGGGAACGAGAC
CGTGCTGTCAACGACTACCCAGCCTCTACTACCCTGAGATGTATATCCTGAAAGGCGGCTACAAGGAGTTCTTC
CCTCAGCACCCGAACCTTCTGTGAACCCAGGACTACCGGCCCATGAACCAGAGGCCTTCAAGGATGAGCTAAAG
ACCTTCCGCCTCAAGACTCGCAGCTGGGCTGGGGAGCGGAGCCGGCGGGAGCTCTGTAGCCGGCTGCAGGACCAG
TGAGGGGCTGCGCCAGTCCCTGCTACCTCCCTTGCCCTTCGAGGCCTGAAGCCAGCTGCCCTATGGGCCTGCCGG
GCTGAGGGCCTGCTGGAGGCCTCAGGTGCTGTCCATGGGAAAGATGGTGTGGGTGCTCTGCCTGTCTGCCCCAGC
CCAGATTCCCCTGTGTATCCCATCAFTTTCCATATCCTGGTGCCCCCACCCTGGAAGAGCCCAGTCTGTTGA
GTTAGTTAAGTTGGGTTAATACCAGCTTAAAGGCAGTATTTTGTGTCTCCAGGAGCTTCTGTCTTCTTGTAG
GGTTAACCCTTCATCTTCTGTGTCTGAAACGCTCCTTTGTGTGTGTGTCAGCTGAGGCTGGGGGAGAGCCGTG
GTCCCTGAGGATGGGTGAGAGCTAAACTCCTTCCCTGGCCTGAGAGTCAGCTCTCTGCCCTGTGTACTTCCCGGGC
CAGGGCTGCCCCAATCTCTGTAGGAACCGTGGTATGTCTGCCATGTTGCCCTTTCTCTTTTCCCCCTTCTCTGT
CCCACCATACGAGCACCTCCAGCCTGAACAGAAGCTCTTACTCTTTCCTATTTCAGTGTTACCTGTGTGCTTGGT
CTGTTTGACTTTACGCCCATCTCAGGACACTTCCGTAGACTGTTTAGGTTCCCTGTCAAATATCAGTTACCCAC
TCGGTCCCAGTTTTTGTGCCCCAGAAAGGGATGTTATTATCCTTGGGGGCTCCCAGGGCAAGGGTTAAGGCCTGA
ATCATGAGCCTGCTGGAAGCCAGCCCTACTGCTGTGAACCTGGGGCTGACTGCTCAGAACTTGCTGCTGCTC
TTGTTGCGGATGGATGGAAGGTTGGATGGATGGGTGGATGGCCGTGGATGGCCGTGGATGCGCAGTGCTTGCAT
ACCCAAACCAGGTGGGAGCGTTTTTGTGAGCATGACAGCCTGCAGCAGGAATATATGTGTGCTATTTGTGTGA
CAAAAATATTTACACTTAGGGTTTGGAGCTATTCAAGAGGAAATGTCACAGAAGCAGCTAAACCAAGGACTGAGC
ACCCTCTGGATTCTGAATCTCAAGATGGGGGAGGGCTGTGCTTGAAGGCCCTGCTGAGTCATCTGTTAGGGCCT
TGGTTCAATAAAGCACTGAGCAAGTTGAG

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FIGURE 5675

GGGTCTGTCTCTTGCTTCAACAGTGTTTGGACGGAACAGATCCGGGGACGGTCTTCCAGCCTCCGACCGCCCTCC
AATTTCTCTCTCCACTTGCAACCTCCGGGACCATCTTCTCGGCTATCTCCTGCTTCTGGGACCTGCCAGCACCGTT
TTTGTCGTTAGCTCCTTCTTGGCGACCAACCATGAGCTCCCAGATTTCGTCAAAATTATTCCACCGACGTGGAGGC
AGCCGTCAACAGCCTGGTCAATTTGTACCTGCAGGCCTCCTACACCTACCTCTCTCTGGGCTTCTATTTTCGACCG
CGATGATGCGGCTCTGGAAGGCGTGAGCCACTTCTTCCGCGAATTGACCGAGGAGAAGCGCGAGGGCTACGAGCG
TCTCCTGAAGATGCAAAACCAGCGTGGCGGCCGCGCTCTCTTCCAGGACATCAAGAAGCCAGCTGAAGATGAGTG
GGGTAAAACCCCAGATGCCATGAAAGCTGCCATGGCCCTGGAGAACCCCATCTCTGTGACTTCTTGGAGACTCA
CTTCCTAGATGAGGAAGTGAAGCTCATCAAGAAGATGGGTGACCACCTGACGAACCTCCACAGGCTGGGAGGCC
AGAGGCTGGGCTGGGCGAGTATCTCTTCGAAAGGCTCACTCTCAAGCACGTCTAAGAGCCTTATGAGCCCAGCGA
CTTCTGAAGGGCCCCCTTGCAAAGTAATAGGGCTTCTGCCTAAGCCTCTCCCTCCAGCCAATAGGCAGCTTTCTTA
ACTACCCTAA

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FIGURE 5676A

GGGGAGGAAGAAAGGCGAAGGCAAGGCGAAGGGGTGGAGAGTGATATGAAGAGCGAGAGAAAAGAGAGGACAGCG
GACGAGCAGATCCGGTATCTGGAATCCCGGCGCCTAGAACGTGTTTTTCGGGAGAGCAAAGGCTGTGTCTACGGC
AGGCTGGGGATATAGCCTCTCCTTCCGATGAAAAGAGAAAGGAAGAAATGGACTACAGCCACCAAACGTCCCTAGT
CCCATGTGGACAAGATAAATACATTTCAAAAATGAACCTTCTCTTGATCTGAAGACCTACAACCTGTACTATGA
AGGCCAGAATTTACAGCTCCGGCACCAGGAGGAAGAAGACGAGTTTATTGTGGAGGGGCTCCTGAACATCTCCTG
GGCCTGCGCCGGCCCATTCGCTGCGAGATGACAGGATGACAACGAACGCATTGACCCCTCCATCCTCCTCCTC
CTGGCACTCTGGCTGTAACTTGGGGGCTCAGGGAACCACTCTGAAGCCCTGACTGTGCCCAAAGTTCAGATCTC
AGAGGTGGATGCCCCGCCGGAGGGTGACAGATGCCAAGCTCCACAGACTCCAGGGGCTGAAGCCCTGCAGGA
GGACACCCACAGCTGATGCGCACACGCAGTGATGTTGGGGTGCGTCGCCGTGGCAATGTGAGGACGCTTAGTGA
CCAGCGGGCAATCAGACGCCACCGCTTCTCCATCAACGGCCATTTCTACAACCATAAGACATCCGTGTTACACC
AGCCTATGGCTCTGTACCAACGTCCGCATCAACAGCACCATGACCACCCACAGGTCCTGAAGCTGCTGCTCAA
CAAATTTAAGATTGAGAATTCAGCAGAGGAGTTTGCTTGTACGTGGTCCATACGAGTGGTGAGAAACAGAAGCT
GAAGGCCACCGATTACCCGCTGATTGCCCGAATCCTCCAGGGCCCATGTGAGCAGATCTCCAAAGTGTTCCTAAT
GGAGAAGGACCAGGTGGAGGAAGTCACCTACGACGTGGCCCAAGTATATAAAGTTCGAGATGCCGTACTTAAAG
CTTCATTGAGAAGCTCCAGGAGGAAGAAGATCGGGAAGTAAAGAAGCTGATGCGCAAGTACACCGTCTCCGGCT
AATGATTCGACAGAGGCTGGAGGAGATAGCCGAGACCCACAGCAACAATCTGAGCCATGAGAACGAGGGGATCTGG
GCACCCACAGGAACCGCCATTGCCCATAGACCCCAAGGAAGCTAGGCACCTTCTTTCCATGGAAACATTTAGACA
CAAACCTCCCCAGCTCCGGCCAAGCCATCATTTGCTACCTGGAGCTGGATGTAGAAGTCAGCAGACAGCTCCCTA
TCCCTGGACCCCTGCCCTCCTTTTTTCTGCTCACAAGGACTTTTGATTTTAGTTATAAGGAGGACCCAAAATGTG
TGTGTGTACATGTGTGTGCACACATGGTACGTGTCCATGTGCCTACCTGATACTTTACATGTAATTAATTTCCA
GGCAACCAGCACAAAGAGCCGTGAGCTTGGCACATGTGCTGCTCGTGAGCAGGAAAAATCAGAGGAGCCACTGATCT
GAGTGGTATTTAGGTTGAAGGAAAGATTTCTCCTCTCAAGTGCCAGGGAGCAGCCACACGCTCTGTCTGTGTTAG
AGAGGGAAGAGGGTTCTCCAGGTTACCATTTGGGTTGTTTATATGTTGGTAGAAATTTCTCCCTGTATGCCTAGA
AGGATCAGTGAATGTAAGAGCCTTGGAATAAACAATAACAGCCACATAACCTTGCGGCAAGTCTGATGGAAA
GAAAAAGATAAACCATCCGTGGGGTAGATGCAATAAGCCACGTATTTTACACTGGAAACGTTGATTGTTTTAA
ATGACAAAGACATATGTGATGTTCTATGTGGAACCTGTGAAGAGTGGATTCTGCCTCCATCTCTGCCTCCATGG
CTACCTTTAGGAGACAGAGAAGATCCTGTGTGTTTCTCTGTACCCAGCTGACAGCCTGTCTCTATGGCGCTTCT
TGAGTGGAAGGAAATGTCTCAAGAAACAAAGATCTCGCTGGTGCGTACACAGTGCTGACCAGCTAGTGTGGCCAG
GGCCTGGTGGCCTGGTGGCCAGGAAGTTTCAGGTTGAAGGGAATGTGAGGCTACCTGCAGATATGACAGGTGC
CTTGAACGCAGCCCATCTTCATGTCTCAAAAGGTTCTCTGCACTTGAAGCTGGGGCGATGTTTGACGTCAAGAC
CATCTTTTCAAACCTCTGGGTTCTTGCAAGTTGCCCTCACCTTGTGTGTGGAGATGCATTCCAAGAATGAAGCCT
CATCTTGCTACTGAGTGTGGGTTTCAAGGAAGCTCTTTAGGCCACCTGGTGAAGGTGCATGGGGAGGATGGAGCT
TCTCCTCAGCTCCTCTGAGCAGCCACCTATGTGATCTTTAAATCCAACCCCAATGGGAGAAAAGGGCAAGAACAG
TCTGTGCCCTGGGACTCCTATCAGGAAGCTTGACAGGCAGCTGGGCATCAGTGCAGCTGATATCGTTTGAGGAGG
GAGACAGATGCTTGGACCTGGGTGCCTGGCTATGGAGATTGACCAAGCAAGATCAGGAGCTCCTGATAGCAGGCG
TCTTTGAGCCTAGCTGGGGTAGAGGCACTGCCCATCTTCTCCACCTTCTCTCCACAGAATGTTTGACAGAGCTG
GGCAGTTGAGGAAAGGACAGCCCTGGTTGGTGCCCTCAAAGGAAGGTGGACTTTTTTGGTGGAGACGTTTCTGC
CCTGGGCACCCTCCTGCCCCGATTATACCTATGGCTTCTTGAGAAGGCTCACAGCTGTGGTCTTAACGTAGAC
TGCAGAAAGATGGCATGCGGCCCTGGCATTTCGCCAAGGGTTTTATAGCAAGTCTCCTTCCCTCCTAGGGACAG
CAGCACCAGCCCTGTGGGGCATGGAGTGAAGGCCAGAGGGCTTCTGCAAGCTGCACAGAAGCTGGGGTAAGAAG
ACAAAGAGTAGCCACCGGGAGAGGCTTCTTTGTTACAGCTGGGAAAGAAGAGTCTGTGAATGCAACACCTCC
TGAGTTTTGCAATTGAGAAAATGATTTGGAGAATCTCTTCTGGTAATTTTTATTTTGAATGTTTCAAGGCTTA
GTTGGCCCCAGTAATTTCTCCTTGGAGGACTTGGGAGAAGAATTTCCACAAAGCAAACTACTAACCCTAGCTCTT
ACTGGACAGCGATTTCTGGCTTATAAGAGTTCTCTTTGATTTGCACTAGCACTACGATAGTGTAGATGGGGAAA
TACTGCAACATGTCCAGTTGGCCAGATCACTTTCCAAGGGAGCGATACTAAGGCAGACTCAGCTTTTTTAAAGATG
GGAGGTGAGGAGGTGAAGTGAGAGGAGATCCCATCTCACACAACACACTTCCACGTAATGCAGACCACACTTTT
CCATTTTGTCTGCTCCTTGGAGGTCATTTCTCACGTCTTAAGAACCTGATCAGAAATTTTGAAGGGTCTT
TGAAATAGCAGCAGTTGAAACAGAGACACTTTGCCACAGTGTGGAGCAGATTTTCTCACTGGTATCACATGGTCT

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FIGURE 5676B

TGCAGTTTTGAACTCTTCGACCGATTTGTGGGAGTTTATGTAATTGCGTGCAATGAACCTGAAATTGTGTAAAGG
ACAAAAGACCAGTTTATAGGGTTGGGTTTTTTTTTCCAACCTTGTGAAAAGCAGTTTAGCTGCATCTGTCTCCCCAC
CACCCCCACCCCGGGAGGGGCTTATGTTACAAGGTGATCAAGTGAAGGAAAAACCTGAGCCTATCTGGCTGGGAT
GGTGGAATTAAGCACAAAGGTCACATTCTCTGTGATCACATGAGAGGGAAGGTGATGACTTAAATGGCAGGGGGTG
GGGATTATCTTGGGGAGAGGCTGAAAAGCACAAAAGATAGTCTTCCCTGTACGTATTGGTGAAGAACGTGCACAA
GGCTGGATGGACTTCAACTTGGAGTTGAGTTGAGGCAAGAGGATTTCTGGATATTAGTCACCCATCTGCAAGAAA
AATGCTGAGGCCTCGGGTCAAGATTTTGTATCTGAGACATGCTGATGCTTCAAGGAGAAAATATTTTACAAATCCTC
TCTTCCCTCACCAGAAGAGAACAGTACTCTCTCCTAGAAAACCTCTAGGTAACACATTTTATCCTAATATCGGTA
GCATATAATGCCCCCCCCAAAATATCTGTTTTCCATGCAAAAAAGTCTCAACAAGAAGTCTGTGGAGTTGAGTGG
TACTTCAAAGTGTGAGGAGAGTGAAGAAATTGGCCACAGAAGAGCAAGAAGCTCTCTTAAGAAAAGGGAATTCT
CTTTAAAGAAAACCAACCAACAACAAAACAACCAAAACCATGTTTTATGTCAAAGCTCTGTAGCACAGAGAAT
GTGGTGTACAGATACATCGCCGAGAGAGGTTTTCTTCTTTCTTTTTTTTTTTTTTTGAGACAGAGTCTGGTTCTG
TTTCCAGGCTGGAGTGCAGTGGTGGGATCTCAGCTCACTGCAACATCCGCCTCTGGGGTTCAAGTGATTCTCCT
GTCTCAGCCTCCCAAGTAGCTGGAATTACAGGGACCCGCCACCACGCCCGGCTAATTTTTTTGTGTGGTTTTAGT
AGAGGTGGGGTTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGATCCACCCGCCTAGGCCTCCC
AAAGTGTTGGGATTACAGGCGTGAGCCACTGTGCCAGCCAAAAGAGAAATTTCTACATGAACAAGGCAATTTCA
GTGCTTACAGCGGCCAAACCATGACGTGAAGAATGAGATAGGAGACAGGAGATCACCATAAGCGTCCCTGATAT
AGCAGCACACATTTTACGTTTCCACTTAAATCGTTTTGCACAAAGTCTTGCTTCGCTCAGATGAGATGAGATAT
GATTTCTAGAGATGTAAAAATAAGAATGAATGTGGCGCCCCCTTCTTCCAGATGTAATAGAAAGCTCTGCCCTA
TCACAAGGGGGGTGTTGAAGCGCCCCCTTGTGTTTTAACTGTATTTAACTGAGCACAAGATGCACAAGCTGTGGTG
GGAAACCCTCAGTTTACCTTTGGAGTCTTCCCTGCAGATCGCAGACCTGTTTCCAGGCTGATGTTTCTGGTGTGT
AATTGCTAGCGTTTCTGAAGGGTTTTCCCAATTGTTTTAGCCTTGTAAGTATTCTTAATTATAACTTGCCTTTC
AGCGATGGTACATGACTTGATTCAACGTTTGGTTCTGAACCTTACACACTGATGCGTTTACTCATCTAACATAATC
TGACAGGGCCTCAGCAAGGGAGCCATACATTTTGTAAACATTTTGATATGTTTTAATGCATCTGACTTAGATCTT
ACTGAAATAAAGCACTTTTCAAAGAG

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FIGURE 5677

MDYSHQTSLVPCGQDKYISKNELLLHLKTYNLYYEGQNLQLRHREEEDEFIVEGLLNISWGLRRPIRLQMDDNE
RIRPPSSSSSWHSGCNLGAQGTTLKPLTVPKVQISEVDAPPEGDQMPSSSTD SRGLKPLQEDTPQLMRTRSDVGVR
RRGNVRTPSDQRRIRRRHRSINGHFYNHKT SVFTPAYGSVTNVRINSTMTTPQVLKLLLNKFKIENSAEEFALYV
VHTSGEKQKLKATDYPLIARILQGPCEQISKVFLMEKDQVEEVTYDVAQYIKFEMPVLKSFIQKLQEEEDREVKK
LMRKYTVLRLMIRQRLEEIAETPATI

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FIGURE 5678

GTCTCAGCCGGTCGTCGCGACGTTTCGCCCCTCGCTCTGAGGCTCCTGAAGCCGAAACCAGCTAGACTTTTCCTCC
TTCCCGCCTGCCTGTAGCGGCGTTGTTGCCACTCCGCCACCATGTTTCGAGGCGCGCCTGGTCCAGGGCTCCATCC
TCAAGAAGGTGTTGGAGGCACTCAAGGACCTCATCAACGAGGCCTGCTGGGATATTAGCTCCAGCGGTGTAAACC
TGCAGAGCATGGACTCGTCCCACGTCTCTTTGGTGCAGCTCACCCCTGCGGTCTGAGGGCTTCGACACCTACCGCT
GCGACCGCAACCTGGCCATGGGCGTGAACCTCACCAGTATGTCCAAAATACTAAAATGCGCCGGAATGAAGATA
TCATTACACTAAGGGCCGAAGATAACGCGGATACCTTGGCGCTAGTATTTGAAGCACCAAACCAGGAGAAAGTTT
CAGACTATGAAATGAAGTTGATGGATTTAGATGTTGAACAACCTTGAATTCCAGAACAGGAGTACAGCTGTGTAG
TAAAGATGCCTTCTGGTGAATTTGCACGTATATGCCGAGATCTCAGCCATATTGGAGATGCTGTTGTAATTTCTT
GTGCAAAAGACGGAGTGAAATTTTCTGCAAGTGGAGAACCTTGGAAATGGAAACATTAAATTGTCACAGACAAGTA
ATGTCGATAAAAGAGGAGGAAGCTGTTACCATAGAGATGAATGAACCAGTTCAACTAACTTTTGCAGTACAGGTACC
TGAACCTTCTTTACAAAAGCCACTCCACTCTCTTCAACGGTGACACTCAGTATGTCTGCAGATGTACCCCTTGTG
TAGAGTATAAAATTGCGGATATGGGACACTTAAATACTACTTGGCTCCCAAGATCGAGGATGAAGAAGGATCTT
AGGCATTCTTAAAAATTCAAGAAAATAAAACTAAGCTCTTTGAGAACTGCTTCTAAGATGCCAGCATATACTGAAG
TCTTTTCTGTACCAAATTTGTACCTCTAAGTACATATGTAGATATTGTTTTCTGTAAATAACCTATTTTTTCT
CTATTCTCTGCAATTTGTTTAAAGAATAAAGTCCAAAGTCAGATCTGGTCTAGTTAACCTAGAAGTATTTTTGTC
TCTTAGAAATACTTGTGATTTTTATAATACAAAAGGGTCTTGACTCTAAATGCAGTTTTAAGAATTGTTTTGAA
TTTAAATAAAGTTACTTGAATTC

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FIGURE 5679

CCAGGAGGCACGCTGGTTTTCCGGGGCCGCTCCATCGCGCCTTCCTCCTGCGCCTCGCTTCTCCGGTCCAGCCGC
CATCTTCCTTTCCGCACAGGGGCCGCCGAGCGGGGCCATCAGCCAACGCTGCTTCTCAGCCTCCTGGGAGCCGT
GGGGCTGGCGGCTGTCAATTCCATGCCAGTGGATAACAGGAACCACAATGAAGGAATGGTGACTCGCTGCATCAT
TGAGGTCTCTCAAAATGCCTTGTCTGAAGTCCAGCGCTCCACCCATCACCCCTGAGTGCCGCCAAGTCTTGAAGAC
GAGTAGAAAAGACGTCAAAGACAAAGAGACAACCTGAAAATGAAAACACAAAGTTTGAAGTAAGATTGTTAAGAGA
CCCAGCTGATGCCTCGGAAGCCCACGAGTCTCCAGCAGGGGAGAGGCAGGAGCCCCAGGGGAGGAGGACATCCA
AGGCCCAACAAAGGCAGACACAGAGAAATGGGCAGAGGGAGGCGGGCACAGCCGAGAGCGAGCGGATGAGCCCCA
GTGGAGCCTCTATCCCTCCGACAGCCAAAGTCTCTGAAGAAGTGAAGACACGCCATTCTGAGAAGAGCCAGAGAGA
GGATGAGGAGGAGGAGGAGGGAGAGAACTATCAAAAAGGGGAGCGAGGGGAAGATAGCAGTGAAGAGAAAACCTT
TGAAGAGCCAGGAGAGACACAAAACGCTTTTCTCAATGAAAGAAAGCAGGCTTCAGCTATAAAAAAGAGGAGTT
AGTGGCCAGATCGAAACACATGCTGCCGGGCATTCTCAGGAGAAGACACATAGCCGAGAGAAGAGTAGCCAGGA
GAGTGGAGAGGAGGCAGGGAGCCAGGAGAATCACCCCCAGGAGTCTAAAGGCCAACCCCGAAGCCAGGAAGAATC
TGAGGAAGGTGAGGAAGATGCCACCTCTGAGGTGGACAAACGACGCACGAGGCCACAGACACCACCAGGGAGGAG
CAGGCCCGACAGGTCTCTCAAGGAGGGAGTCTTCCCTCTGAGGAAAAGGGACACCCCCAGGAGGAATCTGAGGA
GTCAAACGTGAGATGGCCAGTTTAGGGGAAAAGAGGGACCACCATTCAACCCACTACAGGGCTTCAGAGGAAGA
ACCTGAATATGGAGAAGAAATAAAGGGTTATCCAGGCGTCCAGGCCCTGAGGACCTGGAGTGGGAGCGCTATAG
GGGCAGAGGAAGTGAAGAATACAGGGCTCCAAGACCTCAGAGTGAGGAGAGTTGGGATGAGGAGGACAAGAGAAA
CTACCCAGCTTAGAGCTTGATAAGATGGACATGGATATGGTGAAGAAAGTGAAGAGAGAGGGGCCCTTGAGCC
GGGAAAAGGGACGCCATCACAGAGGCAGGGGAGGGGAGCCACGTGCCATTTCATGTCTGACACCAGAGAAGAGAA
AAGGTTCTTGGGTGAAGGACACCACCGTGTCCAAGAAAACCAGATGGACAAGGCAAGGAGGCATCCACAAGGTGC
GTGAAAAGAGCTGGACAGAAATTATCTCAACTACGGTGAGGAAGGAGCCCCAGGGAAGTGGCAGCAGCAGGGAGA
CCTGCAGGACACTAAAGAAAACAGGGAGGAAGCTAGGTTTCAAGATAAACAATATAGCTCCCATCACACAGCTGA
AAAGAGGAAGAGATTAGGGGAAGTGTCAACCCATACTACGACCCTCTCCAGTGGAAGAGCAGCCATTTTGAAAG
AAGAGACAACATGAATGACAATTTTCTCGAGGGTGAGGAGGAAAATGAGCTGACCTTGAACGAGAAGAATTTCTT
CCCAGAATACAACATGACTGGTGGGAGAAAAAGCCCTTCTCTGAGGATGTGAAGTGGGGGTATGAGAAGAGAAA
CCTCGCCAGGGTCCCCAAGCTGGACCTGAAAAGGCAATATGACAGGGTGGCCCAACTGGACCAGCTCCTTCACTA
CAGGAAGAAGTCAGCTGAGTTTCCAGACTTCTATGATTCTGAGGAGCCGGTGAGCACCACAGGAGGCAGAAAA
TGAAAAGGACAGGGCTGACCAGACAGTCTGACAGAGGACGAGAAAAAAGAACTCGAAAACCTGGCTGCAATGGA
TTTGGAACATACAGAAGATAGCTGAGAAATTCAGCCAAAGGGCTGACTGTGCTATTGGAGCGGTGGGCACTGTTAAG
AAGCAGCCATCACATGATCTGTTTTTACCACCTTCACTGAAAGACACCATTATATACCCAGGGCAGAAAGTAG
AACTTACTATTTCATTAATGTTTGACACAATTGGAATTGTCTTTAATTCTGTGAGAAATGCTATTGAAAATGTGA
ATTGCATGACTTGTAGCATATTCTTTTCTGCAAAATAGACATATTAACATGCTTATGACAATGACTGTGCTACTG
TCTTTGGAATAATGTTTGTCTCAGTTGGAATAATAAAGATTACCTGAGACC

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FIGURE 5680

MQPTLLLSLLGAVGLAAVNSMPVDNRNHNEGMVTRCIEVLNALSLSKSSAPPITPECRQVLKTSRKDVKDKETTE
NENTKFEVRLLRDPADASEAHSSSRGEAGAPGEEDIQGPTKADTEKWAEGGGHSRERADEPQWSLYPSDSQVSE
EVKTRHSEKSQREDEEEEEGENYQKGERGEDSSEEKHLLEPGETQNAFLNERKQASAIKKEELVARSETHAAGHS
QEKTHSREKSSQESGEEAGSQENHPQESKGQPRSQEESEEGEEDATSEVDKRRTRPRHHHGRSRPDRSSQGGSLP
SEEKGHPQEESEESNVSMASLGEKRDHSTHYRASEEPEYGEIIGYPGVQAPEDLEWERYRGRGSEERYAPRP
QSEESWDEEDKRNYPSELDKMAHGYGEESEERGLEPGKGRHHRGRGGEPRAYFMSDTREEKRFLGEGHHRVQE
NQMDKARRHPQGAWKELDRNYLNYGEEGAPGKWQQQDLQDTKENREEARFQDKQYSSHTAEKRKRLGELFNPY
YDPLQWKSSHERRDNMNDNFLEGEEENELTLNEKNFFPEYNYDWWEKKPFSEVDNVWGYEKRNLARVPKLDLKRQ
YDRVAQLDQLLHYRKKSAEFPDFYDSEEPVSTHQEAENEKDRADQTVLTEDEKKELLENLAAMDLELQKIAEKFSQ
RG

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FIGURE 5681

ATGCTAGCCTTGCGCGTGGCGCGCGGCTCGTGGGGGGCCCTGCGCGGCGCCGCTTGGGCTCCGGGAACGCGGCCG
AGTAAGCGACGCGCCTGCTGGGCCCTGCTGCCGCCCGTGCCCTGCTGCTTGGGCTGCCCTGGCCGAACGCTGGAGG
CTGCGTCCGGCCGCTCTTGGCTTGCGGCTGCCCGGGATCGGCCAGCGGAACCACTGTTTCGGGCGCGGGGAAGGCG
GCTCCAGGCCAGCGGCCGGAGCGGGCGCCGCTGCCGAAGCCCCGGGCGGCCAGTGGGGCCCCGGCGAGCACCCCC
AGCCTGTATGAAAACCCATGGACAATCCCGAATATGTTGTCAATGACGAGAATTGGCTTGGCCCCAGTTCTGGGC
TATTTGATTATTGAAGAAGATTTTAATATTGCACTAGGAGTTTTTGCTTTAGCTGGACTAACAGATTTGTTGGAT
GGATTTATTGCTCGAAACTGGGCCAATCAAAGATCAGCTTTGGGAAGTGCTCTTGATCCACTTGCTGATAAAATA
CTTATCAGTATCTTATATGTTAGCTTGACCTATGCAGATCTTATTCCAGTTCCACTTACTTACATGATCATTTTCG
AGAGATGTAATGTTGATTGCTGCTGTTTTTTATGTCAGATACCGAACTCTTCCAACACCACGAACACTTGCCAAG
TATTTCAATCCTTGCTATGCCACTGCTAGGTTAAAACCAACATTCATCAGCAAGGTGAATACAGCAGTCCAGTTA
ATCTTGGTGGCAGCTTCTTTGGCAGCTCCAGTTTTCAACTATGCTGACAGCATTTATCTTCAGATACTATGGTGT
TTTACAGCTTTCACCACAGCTGCATCAGCTTATAGTTACTATCATTATGGCCGGAAGACTGTTTCAGGTGATAAAA
GACTGA

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FIGURE 5682

MLALRVARGSWGALRGAAWAPGTRPSKRRACWALLPPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKA
APRPAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAPVLGYLIIIEEDFNIALGVFALAGLTDLLD
GFIARNWANQRSALGSALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVFYVRYRTLPTPRTLAK
YFNPCYATARLKPTFISKVNTAVQLILVAASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQVIK
D

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FIGURE 5683

GCCTGGCTCCGTTTCCTGCTTTTGGTTCTTACAGTAGTCGGCGTAGGCCTTAGGTGGGTTCGTGCGCCTTCTACC
TCGCTGTTTCGGTTTTCTGGCTCCTCGGCCCTTTTCTCCCCTGTTGCAGCTGGGAGCGGACGAAGCGCGAAGCT
GGGATTTTTTACTGTCTCCTGAAGAATTTAACACAAACATGGATATCAGACCAAATCAIACAATTTATATCAACA
ATATGAATGACAAAATTAAGGAAGAATTGAAGAGATCCCTATATGCCCTGTTTTCTCAGTTTGGTCATGTGG
TGGACATTGTGGCTTTAAAGACCATGAAGATGAGGGGGCAGGCCTTTGTCAATTTAAGGAAGTGGGCTCATCCA
CAAATGCCTTGAGACAGCTACAAGGATTTCCATTTTATGGTAAACCAATGCGAATACAGTATGCAAAAACAGATT
CGGATATAATATCAAAAATGCGTGGAACTTTTGCTGACAAAGAAAAGAAAAAGAAAAAGCCAAAACCTG
TGAACAGACTGCAACAACCACAAAAGCCTGGCCAGGGAAGTCCAAATTCAGCTAATACCCAAGGAAATT
CAACACCAAATCCTCAGGTCCCTGATTACCCTCCAACTATATTTTATTCCTTAATAACTTACCAGAAGAGACTA
ATGAGATGATGTTATCCATGCTGTTTAAATCAGTTCCCTGGCTTCAAGGAAGTACGTCTGGTACCAGGGAGGCATG
ACATTGCTTTTGTGTAATTTGAAAATGATGGGCAGGCTGGAGCTGCCAGGGATGCTTTACAGGGATTTAAGATCA
CACCGTCCCATGCTATGAAGATCACCTATGCCAAGAAATTAACATTTGGGATAGTCGTCTTTAAAAGACTTGGTGT
TATTTACAGTGTTTGTGTTTATAACATTTGGCTGGGTCATTTTAATAGTTAGAGATGAGGAGGAGTAAAAGTGAA
ATTTTGTGAAGGACTTAAATTATCCAGTGTTTCTTTAGCCTTGGTGAAGTATGAAATACGAAGGCCTTAATTTT
GTACAATAAACTTTTATTTGTATTCTGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5684

MDIRPNHTIYINNMMNDKIKKEELKRSLYALFSQFGHVVDIVALKTMKMRGQAFVIFKELGSSTNALRQLQGFFFY
GKPMRIQYAKTDSDIISKMRGTFADKEKKKEKKKAKTVEQTATTTNKKPGQGTPNSANTQGNSTPNPQVPDYPPN
YILFLNNLPEETNEMMLSMLFNQFPGFKEVRLVPGRHDIAFVEFENDGQAGAARDALQGFKIIPSHAMKITYAKK

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GAGAGGCGCCAGGCCGGCGGCGGCGGCCGCCAGCTTCTTCTTCTTCCTCGCACAGCCAGGCCGCCGCCCTGCTCGAT
CCCGCGTTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGCCGAGCAAGCTGAGATCTGTAT
CTGTGGACCTGAATGTTGATCCCTCGCTTCAGATTGACATACCTGATGCGCTCAGTGAGAGAGACAAAGTCAAAGT
TTACAGTGCACACAAAGACCACACTGCCACGTTTCAGAGCCAGAGTTTTCTGTTACAAGGCAACATGAAGACT
TTGTGTGGCTACATGACACTCTTATTGAAACAACAGACTATGCTGGGCTTATTATTCCACCTGCTCCTACGAAG
CCGACTTTGATGGTCTCTGAGAGAAGATGCAGAACTGGGAGAAGGTGAAGGGTCTATGACCAAAGAAGAATTTG
CCAAGATGAAACAAGAAGCTGGAAGCTGAGTATCTCGCTGTGTTTAAAGAAGACTGTGTCTCTCCCATGAAGTCTTTT
TTCAGCGGCTTTCTTCTCACCTGTTCTCAGTAAAGATCGCAACTTTCATGTTTTCTGGAATATGATCAGGATC
TAAGTGTTAGGCGGAAAAATACTAAAGAGATGTTTGGTGGCTTCTTCAAAAGTGTGGTGAAAAGTGTCTGATGAAG
TCCTTTTTTACTGGAGTTAAGGAGGTAGATGACTTCTTTGAGCAAGAGAAGAACTTCCTTATTAAGTATTACAATA
GGATCAAAGATTCTTGTGTGAAAGCTGACAAAATGACCAGATCTCATAAAAAATGTTGCCGATGACTATATCCACA
CCGCGAGCTGCTTACATAGCCTGGCTTTAGAAGAGCCACAGTCATCAAAAAGTACCTATTGAAGGTTGCTGAGC
TATTTGAAAACTAAGGAAAGTAGAGGGTCGAGTTTCATCAGATGAAGATTGAAGCTAACAGAGCTCCTCCGAT
ACTACATGCTCAACATTGAAGCTGCTAAGGATCTCTTATACAGACGCACCAAAGCCCTCATTGACTATGAGAACT
CAAACAAGCTCTGGATAAGGCCCGGTTAAAGAGCAAAGACGTCAAGTTGGCTGAGGCACACCAGCAGGAGTGCT
GCCAGAAATTTGAACAACCTTTCCGAATCTGCAAAAGAAGAACTGATAAATTTCAAACGGAAGAGAGTGGCAGCAT
TTAGAAAGAATCTAATTGAAATGTCTGAACTGGAAATAAAACATGCCAGGAACAATGTCTCCCTTTTGCAGAGCT
GTATTGACTTGTTCAAGAATAACTGATATGCCTTCACCTCAGAAGAAAAAGAAATGAATGTGAAAGAAAGCCAAGCA
TCACTTGCACTTAAATCATTACCACGGAAGATATATTAGCTTCAACTTTAGTTTAAAAATTATGTGAATAAATATT
TTGATTTCTACAAATCTTAACATTTAACCATGTTGGTTTAAAAATATTATTGCTTGCTACTTGGACATAACTAAT
TTTTCTTGTGCATTTAATACCTCTGGGCAGAATCCAAATACTGGGTTCCTCCGTAAGTTCTGCTTTTAGTTACTAA
GAAAGGGTGTAGGACACATTAGCCTTCTGGAACAAGTAGAAGCCATCACCTGGCCCATGTCCCTACAAACCCAT
GATTGTCAGGGAGGTGCCAGTTACAGCAGGTGATTACAGCTACTTGAGGTCGGTAACAGACCTTCCATTCTCTACT
GAAGGTGGGGTTTGTGTTTTTGTGTTTGCCTGTTACTCCACTGGTAGTCATCTGGTGTGTTGTACTATAACAACAG
CAAGAAAAATCTCATTTATCTTTATATACTCTTTGCACCTCCTTTTTTTAGTCGAGATATAAATATTTGAGGGGAG
AGAAAAATCTACAGGTATATATGGAACAATAATGTGGTCTGCTTTATAAGATGGCCAGATCTACATTAGGAAA
AGTATAAGCCCCCTCCCTAATATGGCCGCTGGGGGTGAGGGCGGTGTGTTGTATGTCTTTGGGTGTTGTTTTTTT
ATAAAGCATATAATAAATAAATCGTGCTACT

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FIGURE 5686

MAAVPELLQQQEEDRSKLRVSVDLNVDP SLQIDIPDALSERDKVKFTVHTKTTLPTFQSPEFSVTRQHEDFVWL
HDTLIETTDYAGLIIPPAPT KPDFDGP REKMQKLGE GEGSMTKEEF AKMKQELEAEYLAVFKKT VSSHEVFLQRL
SSHPVLSKDRNFHFV FLEYDQDLSVRRKNTKEMFGGFFKSVVKSAD EVLFTGVKEVDDFFEQEKNFLINYYNRIKD
SCVKADKMTRSHKNVADDYIHTAACLHSLALEEPTVIKKYLLKVAELFEKLRKVEGRVSSDEDLKLTELLRYMYL
NIEAAKDLLYRRTKALIDYENS NKALDKARL KSKDVKLAEAHQQECCQKFEQLSESAKEELINFKRKRVA AFRKN
LIEMSELEIKHARNNVSL LQSCIDLFKNN

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FIGURE 5687

GAGAGTGTCCGTTGCTTCCCGTCCGTGTGCGGGCCCTGCGGTTGGCGGCCTCCTCGTGGAGCGGAGCAAGGGTAG
GCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTGGGAGGCTGCTCTGGGGGAGCACGT
GGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGGAGGCCTCCTGCCGCCGTGCGGCAG
GGAGGCCGGCGGAGGCGGGGCGTGGCCGCCCCGAGAGGCGCCCAGGCGGCGGCGGCGGCGGCCAGCTTCTTC
TTTCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCGCCATGGCCGCGGTTCCCGAGTTGCTGCAGCAG
CAGGAGGAGGACCGCAGCAAGGTGAGGTCTCCAGCCTCAGACTCCTGGGCGGGCGGCCCTGCGAGCTCCGGGG
TCGCTGCATTCTTTCCCTTGCGCGTCCATAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGCGGGAAGCACCCGTG
AGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGATGTCCCGGATTCTA
TTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGACTTGGAGAGATGATC
TCTGGAGACCCCGGAATGTTCTTTTTTAAACTTTTCTCGGCTTCGTGGTGACCAGTAGGTGAACGTGAAATTGAC
TTAACATGCGACAGACCAGTTTGGTTTGTGCCCCCAAATACCCCTCCTTCCCCCACCTTTTACTGAGAAGACT
TTTTTGGGGGGGGGGCCAAACAACCTGGGAAATTGCATCAAGCGTCCGAACATGCTGCTTACAACTTTAGAAAC
GCAAAATGCGTTGTTGTGGGAGTTGTGTAATTTTAGTAGGTGCTCAAATACTTGCTGAACTTGGTGTCTATTTT
TAAGTCTTGCCCATTGATGTAACTGTCCCTAGGTCACGTGTATCTTGAGGTCTAAAAGATTATTTATGCAATAA
ATTGAAATTCCTATAGCCAATTAAAGATTC

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FIGURE 5688

CTTTCTCTAGACGCGTCTTGCTGGGAGAGTGTCCGTTGCTTCCCGTCCGTGTCGCGGCCCTGCGGTTGGCGGCCCT
CCTCGTGGAGCGGAGCAAGGGTAGGCCCCACGTGGCGTCTTTGCCCGGCTCCAAGATGGACGGCAGCGGGGACTG
GGAGGCTGCTCTGGGGGAGCACGTGGCGCCCTGCTCGCCTGCTCCCGGGGCAGCTGGGATGGTGGCGGAGTCCGG
AGGCCTCCTGCCGCCGTGCGGCAGGGAGGCCGGCGGAGGCGGGGCCGTGGCCGCCCCGAGAGGCGCCAGGCGG
CGGCGGCGGCGGCCAGCTTCTTCTTTCTCGCACAGCCAGGCGGGCCCTGCTCGAGTCCCGCGTCCCATGGCC
GCGGTTCCCGAGTTGCTGCAGCAGCAGGAGGAGGACCGCAGCAAGGCCGTGGCTGCTCGCCGCCATCCCCAGCGC
GGGAAGCACCCGTGAGACCCGGGCGGCCCTCTCCCTGGTCTTCACTGAAGGCTGCCCCGGGGAATCCCTGTGGA
TGTCCCGGATTCTATTAGGACAGAACCAGAGACGCGGGACCTTAGCCCCAGCTCAGGCGCCGGTGCCGAGCGGAC
TT

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FIGURE 5689A

GAGGGGTCGAGCCTGGGCAGTACAGGCGGCGGTGCGCACTCTGCGGCGGCCTCTGCGCCTCGGGCGGGCGGGAGA
GAGAGGCCGCGGCCGCCAGCGTGGGGATGTCTAGGAGCTCGAAGGTGGTGCTGGGCCCTCTCGGTGCTGCTGACGG
CGGCCACAGTGGCCGGCGTACATGTGAAGCAGCAGTGGGACCAGCAGAGGCTTCGTGACGGAGTTATCAGAGACA
TTGAGAGGCAAATTCGAAAAAAGAAAACATTTCGTCTTTTGGGAGAACAGATTATTTTGA CTGAGCAACTTGAAG
CAGAAAGAGAGAAGATGTTATTGGCAAAGGATCTCAAAAATCATGACTTGAATGTGAAAATCTGTTGGACAGA
CAACACGAGTTTGTGTGTGTGTGTGATGGAGAGTAGCTTAGTAGTATCTTCATCTTTTTTTTTTGGTCACTGTCC
TTTTAACTTGATCAAATAAAGGACAGTGGGTCATATAAGTTACTGCTTTCAGGGTCCCTTATATCTGAATAAAG
GAGTGTGGGCAGACACTTTTTTGAAGAGTCTGTCTGGGTGATCCTGGTAGAAGCCCCATTAGGGTCACTGTCCAG
TGCTTAGGGTTGTTACTGAGAAGCACTGCCGAGCTTGTGAGAAGGAAGGGATGGATAGTAGCATCCACCTGAGTA
GTCTGATCAGTCGGCATGATGACGAAGCCACGAGAATCGACCTCAGAAGGACTGGAGGAAGGTGAAGTGGAGG
GAGAGACGCTCCTGATCGTCGAATCCGAGGATCAGGCATCAGTGGACTTATCGCACGACCAGAGTGGGGATTCCC
TCAACAGTGATGAAGGAGACGTGTCTTGGATGGAGGAGCAGCTGTCTACTTCTGTGACAAGTGCCAAAAATGGA
TACCAGCCAGTCAGCTGAGGGAACAGCTCAGTTACCTTAAGGGTGATAATTTTTTTTAGGTTTACTTGTTCGGATT
GCTCAGCAGATGGCAAGGAGCAGTATGAAAGGCTGAAGCTGACATGGCAGCAAGTCGTCA GTTTGGCAATGTACA
ACTTGTCTCTGGAAGGAAGTGGACGTCAAGGTTATTTTCAGGTGGAAGAAGATATCTGTGCTTTTATTGAGAAAC
ATTGGACTTTTTTACTAGGGAATAGGAAAAAGACGTCTACCTGGTGGAGCACCGTGGCAGGTTGCCTCAGCGTGG
GAAGTCCCATGTACTTCCGTTTCAGGTGCTCAGGAATTTGGAGAGCCAGGATGGTGGAACTTGTTCATAACAAGC
CCCCAACGATGAACCTGAAGGAGAGAAGTTGTCTGCTCTACTTTGAAAATAAAAGCAGCCTCAAAACCAACTT
TAGATCCCATCAITACTTGTAGGGACTTAGAAAACGAGCAAGTCGGAATCCTGTGGAATCTGCCATGGAATTAA
AAGAGAAAAGGTCTCGAAGCTCAGGAAGCAAAAGACATTAGAAGAGCCCAGAAGGAGGCCGCTGGCTTTCTTGACA
GGAGCACATCTTCTACCCCTGTAAAATTCATAAGCCGAGGCCCGCAGGCCAGATGTGATTCTGGA AAAAGGCGAAG
TGATTGACTTTTTCTCTTGTAGCTCCTCTGACCGCACCCCGCTGACAAGCCCATCTCCTTCTCCTTCTCTGGATT
TCTCTGCCCCCTGGTACACCTGCCTCTCATTCTGCCACACCTAGCTTGCTTTCAGAAGCAGATCTGATTCCAGATG
TGATGCCCCCAAGCCTTGTTTCATGATGACGATGAGATGGAAGCGATGGAGTCATAGACCAGGGATGGAGT
ACGTCCCACCCCTGCTGGGTCACTAGCTTCTGGGCCAGTGGTTGGGGTCAGAAAGAAGGTGAGAGGCCCTGAAC
AGATAAAGCAGGAGGTAGAGAGTGAGGAGGAAAAAACCAGCAGGATGGATATTGACAGTGAAGACACAGATTCAA
ACACATCTTTGCAACAAGGGCTAGAGAAAAAGAGGAAGCCTCAGCTGGAGAAGGACACAAAGCCGAAAGAGCCCA
GGTATACTCCCGTGAGCATCTACGAGGAAAAAGCTGCTGCTCAAGAGGCTGGAAGCTTGTCCCGTGTCTTGGCCA
TGACTCCGGAAGCTCGGAGACTGAAACGCAAACTGATTGTGACACAAGCGAAAAGGGATAGGGGATTACCACTTT
TTGACTTGGATCAAGTTGTTAATGCTGCTCTTTTGTAGTTGACGGGATTTATGGAGCCAAAGAAGGAGGAATTT
CCAGACTTCCAGCTGGACAAGCCACGTACAGAACCACCTGTGAGGACTTCAGAATCCTTGACCGATACCACTT
CCTTGCCGTCCAGGAAGGGATTTGACACCAGACCACCAAGTTTTTGTATCGCTTGGTAGGATCAGAAGATATGG
CTGTGGACCAGAGTATTGTGAGCCCTTATACCTCTCGGATCTTGAAACCTTATATCAGGCGTGATTATGAAACAA
AGCCACCCAACTGCAGCTCCTGTACAGATTTCGTTCCACCTGCACAGGAGCGACCCTCACTGGACGCCGGAGC
CCGACGCACCTCTCGATTACTGTTATGTGCGGCCAAATCACATCCCAACGATCAACTCCATGTGTGAGGAGTTTT
TTTGGCCTGGCATTGACCTGTCTGAGTGTCTGCAGTACCAGACTTCAGTGTGTGTTGTTCTTTATAAAAAAGTCA
TCATTGCCTTTGGCTTCATGGTTCTGATGTGAAATACAATGAAGCTTACATTTTCTGTTCTGTTCCACCTG
AATGGAGAAGAGCAGGGATTGCAACTTTTATGATCTATCATCTGATTGAGACCTGCATGGGCAAGGACGTAACCC
TTCAGCTCTCAGCAAGCAACCCTGCTATGCTACTGTACCAGAAGTTTGGATTCAAGACTGAAGAATATGTATTAG
ATTTCTATGATAAAATATTACCCATTGGAGAGTACAGAGTGTAACACGCATTCTTTCTGAGGCTCCGGCGCTGAT
GCGAATACAGCTCACAGAGAAACGCATGTGCTATTGGAGAACAGGTCTTTGTGGAGATCTAAAGGCAGTGATTGA
TTTCACAGGGAGCTCTAATCTCTGTGATTACATGGTCCTTCAAACCTCCCAACCAAGTGAGAAAAAGCGGCATGCA
GTGAAATGAGCAGTGAGCAGCCCTTTAGCAAAATCGCCCTCCAGTCTTCTGGAGATGCCTTCAGCCAGCATCC
CAGACTCCACAGTTATTTATGAATGATGTGCTGATTCTCCCTCCACCTGACAGTTTGTAAAGAGTGAAAGAGCATC
TAACCTGATGCTCTTGGAGAGAGATAACCTGTCTGTCTATAACTTAAAGGATGAGAAAAATGTGGTGTAGCTATTAA
AGATTGATGAGTCCCAAAAGGCACTGTCTGGGATGATGAGAGATTATAAGGTGATTTATAAAAGGAATCCAA
CCCTGTGCCCCGCCATTGATGTGTTGTGATTGAATCCAGGAGGATTTCTAGGGCACTGAAGTTTTGTGTTTCTT
TTGCTGACTTTGGTTACAGTCAGAAAAATAAACTAGATGTTTGTGTCTACATGTTCTACCTGTTGTACCTATTA

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FIGURE 5689B

GCATCTTCCTGCAGGGACTTGGGCCCATGGCCTGGGAGGTTGGTTTGGGATTGGGGTTGTTGGGCAGCCTGCCAT
TCACCTGGCCTATCCTGGCCCTTCTCATGCCCAAGACAGTTGTTTCACAGGAGTGGAAGTGTGGGTGATGCAAGT
AGAACCCCTCTAGATGTACCCTGTGTGGTCTGCAGGACTGGACTGTTTGCTGTGTTTGTGGATGTTGGCGATAGAC
TGTCAATTAGGTTGTTTGTGATCCAACAAGAACATTTCCAAAAGTATCTAGGTGTTCTCAAATAAAAAGCTTTCT
TTGCACAACCC

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FIGURE 5690

MDSSIHLSLISRHDDEATRTSTSEGLEEGEVEGETLLLIVESEDQASVDLSHDQSGDSLNSDEGDVSWMEEQLSY
FCDKCQKWIPASQLREQLSYLKGDNFFRFTCSDCSADGKEQYERLKL TWQQVVMLAMYNLSLEGSGRQGYFRWKE
DICA FIEKHWT FLLGNR KKTSTWWSTVAGCLSVGSPMYFRSGAQEFGE PGWVKLVHNKPPTMKPEGEKLSASTLK
IKAASKPTLDP IITVEGLRK RASRNPVESAMELKEKRSRTQEAKDIRRAQKEAAGFLDRSTSSTPVKFI SRGRRP
DVILEKGEVIDFSSLSSSDRTP LTSPSPSPSLDFSAPGTPASHSATPSLLSEADLIPDVMPPQALFHDDDEMEGD
GVIDPGMEYVPPPAGSVASGPVVGVRKKVVRGPEQIKQEVESEEEKPDRMDIDSED TDSNTSLQTRAREKRKPQLE
KDTKPKEPRYTPVSIYEEKLLLKRLEACP GAVAMTPEARRLKRKLIVRQAKRDRGLPLFDLDQVVNAALLLV DGI
YGAKEGGISRLPAGQATYRTTCQDFRILD RYQTS LPSRKGF RHQTTKFLYRLVGSEDMAVDQSIVSPYTSRILKP
YIRRDYETKPPKLQLLSQIRSHLHRSDPHWTPEPDAPLDYCYVRPNHIPTINSMCQEFFWPGIDLSECLQYPDFS
VVVLYKKV IIAFGFMVPDVKYNEAYISFLFVHPEWRRAGIATFMIYHLIQT CMGKDVT LHV SASNPAMLLYQKFG
FKTEEYVLDFYDKYYPLESTECKHAFFLR LRR

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FIGURE 5691

ATGATGAACACAAACGGAAAGAGGAGAGGCACCCGATATATGTTCTCTAGGACTTTTAGAAAACATGGAGTTGTT
CCTTTGGTCACGTATATGCGAATCTATAAGAAAGGTGATATTGTAGACATCAAGGGAATGGGTACTGTTCAAAAA
GGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTACAGTGTTACCCAGCATGCTGTTGGCATTGTT
AGCATTAAATGTGCATACTGAGCACATGAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAATGCATGAGGAAAATG
ATCAGAAAAAAAAAAGGCCAAAGAGAAAAGACACACTTTGTGAGAACCAATGGGAAGGAGCCTGAGCTGCTG
GAACTTATTCCGTATGAATTCATGGCTAA

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FIGURE 5692

MMNTNGKRRGTRYMFSTRFRKHGVVPLVTYMRIYKKGDIVDIKGMGTVQKGMPHKCYHGKTGRVYSVTQHAVGIV
SINVHTEHMKHKSRSRDSFLKCMRKMIRKKKEAKEKEAHFVRTNGKEPELLELIPYEFMA

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FIGURE 5693

TGGGCGCGCCTTCCGGGTGTACCTCCAGAGGGCGCCGGCTGCGGAGCCTCCCTCAGAGTCGCGAGGCCGGACGC
ATCGCGGCGCCGCCCACTCGCCCCAGCCGCCGCCATGAAGGCCGTGGTGCAGCGCGTCACCCGGGCCAGCGTCA
CAGTTGGAGGAGAGCAGATTAGTGCCATTGGAAGGGGCAATATGTGTGTTGCTGGGTATTTCCCTGGAGGATACGC
AGAAGGAACTGGAACACATGGTCCGAAAAGATTCTAAACCTGCGTGTATTTGAGGATGAGAGTGGGAAGCACTGGT
CGAAGAGTGTGATGGACAAACAGTACGAGATTCTGTGTGTGAGCCAGTTTACCCTCCAGTGTGTCTGAAGGGAA
ACAAGCCTGATTTCCACCTAGCAATGCCCCACGGAGCAGGCAGAGGGCTTCTACAACAGCTTCTGGAGCAGCTGC
GTAAACATACAGGCCGGAGCTTATCAAAGATGGCAAGTTTGGGGCCTACATGCAGGTGCACATTGAGATGATG
GGCCTGTGACCATAGAGCTGGAATCGCCAGCTCCCGGCACCTGCTACCTCTGACCCAAAGCAGACGGATTCTCGCT
CTGTCTCCCAGGCTGGAGTGCAGTGGCGCGATCTCCGTTTATTGCAAGCTCCACCTCCCGGGTTCATGCCATTCT
TCTGCCCTAAGCCTCCCAAGTAGCTGGGACTATAGGCACGTGCCACCATGCCCGGCTAATTTTTTTGTATTTTTTAG
AGTAGAGACGGGGTTTTACCATGTTAGCCAGGATGGTCTCGATCTCTGCCCCTGGTGATCCACCCGCCCTCGGCCT
CCCAAAGTGCTGGGATTACAGGTGTGAACTACCGCGCCCCAGCCAAAGTTCAGTAGGTTTTTTAAATGTCTTTTTT
CTGCTCCGGGATAATGCAGGATTCCACACGGCATTTAGTTGTCAATTTCTGCTTAGTCTTCTCCAATCTGTGACAG
TTCTCAGCCTTTCCTTGTCTTTGTGACATTGATACTTTTCAAGAGTACTAGTCTACTGTTTTGTAGAATGTTT
CTCACTTTGGGTTTTCTATGATTATATTGAGGTAATACATGTTGACAGGAATAGGAAATAGCACAGAAGTGATCT
TGTGCCCTTCATAGTGCATCCTACCAGGAGGTATGTGGTATTGATTTGTCTTGTACCTGTGATACCAGCCTTAT
TACTTGGTTCAGGTGAAGTCTACCAGATACCTCCATGTTAGATGAAGTGCTAACCTCTTCCCTTGTCTGTCTCT
CTGGCTCATTACAGCAGACAGCTCTCTCTCAGCTTTGCAGGGAAAGAAGCCAGCAGATGGCATTGACTCTGCTT
CTCTATCCCCCTTCTGCCACCGTGGTAGCAGAGCTACCCTTTCTGGGCTGAGTCCAGCCTCTCCCTGGGGCCAG
GACCAGCTACATAATTTGAGAGGCCAGTGTAATAATGAAATGTGGGGCCCCCTGTGAAGGTGGGGCCTGTGTGACTGCTCGGCTG
TGGGTCTAGACTGACCTGGGCTTTGGAGCCCTTCCCTTCCACCTCCTCAGCAGCTTCTGGAAGCCTCTGTCTCT
TTGTTGGTCTGTCTGCCTCTCACAGTCATCCATCTTATCCATTGGGTTTTAAATATGCCCAAATGTCTCCAAT
TGAGAAATGCTTCCATTTCCCTCCCTTCTGCTCTGCCACAGTGTCTTGGGTCTGTAAAGGTTCTCACCGAGGGCC
CCAGTGACCTCACATTGCTTTATTTTATGCCCATTTTTTCAAGACATTTTCTTGCCACTGCTGCCACTTTTTGCC
CCTGGAAATGGCTGGAGCCTTGTTTTCCAGGACGTCAATCTCTCTGGGTTTTTGTCTTGCCCTCTGGCTACTCCCT
CTGGTTTTATTTGATCATTATTTCCATAGTTTTTAGTTATTATTCTGCTTTAACTCTATTGAGAAAAATTTAG
TCTTTTTTTCAATCTAAATATTTTTCCGAAATGGTAGAATAGTACATTTGCCTTTAGAATCTTACCTTTCTT
TCAACCAGTACCCTCTTCTTTAGGTCAAAGGGTACAAAGATGCAGTTATTTGGGTGAGTAAGTCTCAAGAT
CTAATGTACACCATAAGGAGTGCAGTATCATATTGTGCACCTGGGAGTAGATTTAGGAATCTCAGCACACACAGA
ATAAAGGACGGTAACTGTGTGAGATGCTGGACATGTAATTTACTTGACTGTAGTAATCACTTCACTATGTGTATG
TAGATCAGAGCATCATGCTGTACACCTTATACAATAAATCCCTCTCCCCAAATCAAAAAAAAAAAAAAAAAA

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FIGURE 5694

MKAVVQRVTRASVTVGGEQISAIGRGICVLLGISLEDTQKELEHMVRKILNLRVFEDES
GKHWSKSVMDKQYEIL
CVSQFTLQCVLKGNKPDFHLAMPTEQAEGFYNSFLEQLRKTYRPELIKDGKFGAYMQVHIQNDGPVTIELESPAP
GTATSDPKQTDSSRSVSQAGVQWRDLRSLQAPPPGFMPFFCLSLPSSWDYRHVPPCPANFFVFF

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FIGURE 5695

CTCTCGGCTTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCGTCCTGAATCCGGGTTTCATCCGACACC
AGCTGCCTCCACCATGCTGCCGAAGTTCGACCCGAACGAGATCAAAGTCGTATACCTGAGGTGCACCGGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAATGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTAACCATTTCAGAACAGACAGGCCAGAT
TGAGGTGGTGCTTCTGCCTCTGCCATGATCATCAAAGCCCTCAAGGAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAGTGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCAATCCTT
AGCCAGAGAACTCTCTGGAACCACTAAAGAGATCCTGGGGACTGCCAGTCTGTGGGCTGTAATGTTGATGGCCG
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTAGAATGCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTGACAA

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FIGURE 5696

ATGAAAGTCGAGCTGTGCAGTTTCAGCGGATACAAGATCTACTCCGGACACAGGAGGCGCTACGCCAGGACCGAA
GGGAAGGTTTTCCGGTTTCTTAATTCAAAATGCGAAGGGATCAGAAACCTGAAGTTAGAAAAGGCTCAAAGAGAAC
AAGCTATCAGGGCTGCTAAGGAAGCAAAAAAAGGCTAAGCAAGCATCTAAAAAGACTGCAATGGCTGCTGCTAAG
GCACCTACAAAGGCAGCACCTAAGCAAAAGACTGTGAAGGTTGTGAAAGTTTCAGCTCCCCAAGTTGGTGGAAAA
CGCTTAA

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FIGURE 5697

MKVELCSFSGYKIYSGHRRRYARTEGKVFRFLNSKCEGIRNLKLERLKENKLSGLLRKQKKAKQASKKTAMAAAK
APTKAAPKQKTVKVVKVSAPQVGGR

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FIGURE 5698

AAGTGCTGGTGCCCTCTGCCGCTGCTCCCGTCTCTTTGGTTACGCTCGTCAGCCGGTCGGCCGCCGCCTCCAGCC
GTGTGCCGCTATGGGAGTCCCGGCGTTCTTCCGCTGGCTCAGCCGCAAGTACCCGTCCATCATAGTCAACTGCGT
GGAAGAGAAGCCAAAAAGAAATGCAATGGTGTAAAGATTCCAGTTGATGCCAGTAAACCTAATCCAAATGATGTGA
GTTTGATAATCTGTATTTGGATATGAATGGAATCATCCATCCCTGTACTCATCTGAAGACAAACCAGCACCAA
AAATGAAGATGAAATGATGGTTGCAATTTTTGAGTACATTGACAGACTTTTCAGTATTGTAAGACCAAGAAGACT
TCTCTACATGGCAATAGATGGAGTGGCACCACGTGCTAAAATGAACCAGCAGCGTTCAAGGAGGTTCAAGGCATC
AAAAGAAGGAATGGAAGCAGCAGTCGAGAAGCAGCGAGTCAGGGAAGAAATATTGGCAAAAGGTGGCTTTCTTCC
TCCAGAAGAAAATAAAAGAAAGATTTGACAGCAACTGTATTACACCAGGAAGTGAATTCATGGACAATCTTGCTAA
ATGCCCTTCGCTATTACATAGCTGATCGTTTAAATAATGACCCTGGGTGGAAAAATTTGACAGTTATTTTATCTGA
TGCTAGTGCTCCTGGTGAAGGAGAACATAAAATCATGGATTACATTAGAAGGCAAAGAGCCAGCCTAACCATGA
CCCAAAATACTCATCATTGTTTATGTGGAGCAGATGCTGATCTCATTATGCTTGGCCTTGCCACACATGAACCGAA
CTTTACCATTATTAGAGAAGAATTCAAACCAAACAAGCCCAAACCATGTGGTCTTTGTAATCAGTTTGACATGA
GGTCAAAAGATTGTGAAGGTTTGCCAAGAGAAAAGAAGGGAAGCATGATGAACCTGCCGATAGTCTTCTTGTGC
AGAAGGAGAGTTTATCTTCTTCCGCTTAATGTTCTTCGTGAGTATTGGAAAGAGAACTCACAAATGGCCAGCCT
ACCATTACATTTGATGTTGAGAGGAGCATTGATGACTGGGTTTTCATGTGCTTCTTGTGGGAAATGACTTCTT
CCCTCATTTGCCATCGTTAGAGATTAGGGAAAATGCAATTGACCGTTTGGTTAACATATACAAAAATGTGGTACA
CAAACTGGGGGTACCTTACAGAAAGTGGTTATGTCAATCTGCAAGAGTACAGATGATCATGTTAGCAGTTGG
TGAAATTGAGGATAGCATTTTTAAAAAGAGAAAGGATGATGAGGACAGTTTTAGAAGACGACAGAAAGAAAAAG
AAAGAGAATGAAGAGAGATCAACCAGCTTTCACTCCTAGTGGAATATTAACCTCCTCATGCCCTGGGTTCAAGAAA
TTCACCAGGTTCTCAAGTAGCCAGTAATCCGAGACAAGCAGCCTATGAAATGAGGATGCAGAATAACTCTAGTCC
TTCGATATCTCCTAATACGAGTTTACATCTGATGGCTCCCGTCTCCATTAGGAGGAATTAAGCGAAAAGCAGA
AGACAGTGACAGTGAACCTGAGCCAGAGGATAATGTGAGGTTATGGGAAGCTGGCTGGAAGCAGCGGTACTACAA
GAACAAATTTGATGTGGATGCAGCTGATGAGAAATTCGTCGGAAAGTTGTGCAGTCGTACGTTGAAGGACTTTG
CTGGGTCTTAGATATTATTACCAGGGCTGTGCTTCTGGAAGTGGTATTATCCATTTTATTATGCACCATTTGC,
TTCAGACTTTGAAGGCATTGCAGACATGCCATCTGATTTTGAGAAGGGTACGAAACCGTTTAAACCACTAGAACA
ACTTATGGGGGTATTTCCAGCTGCAAGTGGTAATTTTCTACCTCCATCATGGCGGAAGCTCATGAGTGATCTCTGA
TTCTAGTATAATTGACTTCTATCCTGAAGATTTTGCTATTGATTGAAATGGGAAGAAATATGCATGGCAAGGTGT
TGCTCTCTTGCCATTCTGTGATGAGCGAAGGCTACGAGCTGCCCTAGAAGAGGTATACCCAGACCTCACTCCAGA
AGAGACCAGAAGAAACAGCCTTGAGGTGATGTCTTATTTGTGGGGAACATCACCCACTCCATGACTTCATTTT
AGAGCTGTACAGACAGGTTCCACAGAGCCAGTGGAGGTACCCCTGAACATATGTCATGGGATTCAGGAAAGTT
TTCTTTGGATGAAGAAGCCATTCTTCCAGATCAAATAGTATGTTCTCCTGTTCTATGTTAAGGGATCTGACACA
GAACACTGTAGTCAGTATTAATTTTAAAGACCCACAGTTTGCTGAAGATTACATTTTAAAGCTGTAATGCTTCC
AGGAGCAAGAAAGCCAGCAGCAGTACTGAAACCTAGTGACTGGGAAAAATCCAGCAATGGACGGCAGTGGAAGCC
TCAGCTTGGCTTTAACCGTGACCGGAGGCCTGTGCACCTGGATCAGGCAGCCTTCAGGACTTTGGGCCATGTGAT
GCCAAGAGGCTCAGGAACCTGGCATTACAGCAATGCTGCACCACCACCTGTGACTTACCAGGGAAACTTATACAG
GCCGCTTTTGAGAGGACAAGCCAGATTCCAAAACCTTATGTCAAATATGAGGCCAGGATTCCTGGCGAGGTCC
TCTCCCCCTTTTCCAGCAGCAAAGGTTTGACAGAGGCGTTGGGGCTGAACCTCTGCTCCCATGGAACCGGATGCT
GCAAAACCAGAATGCAGCCTTCCAGCCAAACCAGTACCAGATGCTAGCTGGGCTGGTGGGTATCCACCCAGACG
AGATGATCGTGGAGGGAGACAGGGATATCCAGAGAAGGAAGGAAATACCCTTTGCCACCACCTCAGGAAGATA
CAATTGGAATTAAGCTTTTGTAAAGCTTTCCCAAATCCTTTCATCATTCTACAGTTTTATGCTATTTGTGGAAAG
ATTTCTTTCTCAAGTAGTAGTTTTTAATAAACTACAGTACTTTGTGTATTTCTTTTAACTGTGTATATTTCTAC
TGATCTGATCTCACTGTTTATGTTGCTTTCCAAAGATGATGTTGCATAATACAGTGGATCTGAATTTATTATTG
CTTATAAAACACATTTGATGGAATAGGAGTACTGGTTTTTCATAATGGTTAAAAATGAAACCAGCTGTGGATTTC
AAAACACAGTGTATTCTAGATCATCTAAGATCCATGCTGATTTTTATTGCACAAGAATTAGGTTTGAACCTCTTGA
GCTGGAACCTCAGCAAACCTAGAGTATATATTGTTTCACTTTCTTTGGAAACATTTTATTAATGTACTTGTCTTA
CAGAAATTTCTGAACCTTTAGTAAAAAAAATAAAGTTAACTTTTAAACTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5699

MGVPAFFRWLSRKYPSSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNED
EMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSSRRFRASKEGMEAAVEKQVRVEEILAKGGFLPPEE
IKERFDSNCITPGTEFMDNLAKCLRYIIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNT
HHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGE
FIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTG
GYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDSDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPG
SQVASNPRQAAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYKKNF
DVDAADEKFRRKVVSQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMG
VFPAASGNFLPPSWRKLMSPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPETR
RNSLGGDVLFFVGKHHPLHDFILELYQTGSTPVEVPPELCHGIQKFSLDEEAILPDQIVCSPVPMRLDLTQNTV
VSINFKDPQFAEDYIFKAVMLPGARKPAAVLKPSDWEKSSNGRQWKPLGFNRDRRPVHLDQAAFRTLGHVMPRG
SGTGIYSNAAPPVPTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPLFFQQQRFDRGVGAEP LLPWNRMLQTQ
NAAFQPNQYQMLAGPGGYPPRRDRGGRQGYPREGRKYPLPPP SGRYNWN

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FIGURE 5700

CCCGCCCACTTCCAACCTACCGCCTCCGGCCTGCCAGGGAGAGAGAGGGAGTGGAGCCCAGGGAGAGGGAGCGCG
AGAGAGGGAGGGAGGAGGGGACGGTGCTTTGGCTGACTTTTTTTTTAAAGAGGGTGGGGGTGGGGGGTGATTGCT
GGTCGTTTGTGTGGCTGTAAATTTTAAACTGCCATGCACTCGGCTTCCAGTATGCTGGGAGCGGTGAAGATGG
AAGGGCACGAGCCGTCCGACTGGAGCAGCTACTATGCAGAGCCCGAGGGCTACTCCTCCGTGAGCAACATGAACG
CCGGCCTGGGGATGAACGGCATGAACACGTACATGAGCATGTGGCGGGCCGCCATGGGCAGCGGCTCGGGCAACA
TGAGCGCGGGCTCCATGAACATGTGCTCGTACGTGGGCGCTGGCATGAGCCCGTCCCTGGCGGGGATGTCCCCCG
GCGCGGGCGCCATGGCGGGCATGGCGGGCTCGGCCGGGGCGGGCCGGCGTGGCGGGCATGGGGCCGCACTTGAGTC
CCAGCCTGAGCCCGCTCGGGGGGCGAGCGGGCCGGGGCCATGGGCGGCCTGGCCCCCTACGCCAACATGAACTCCA
TGAGCCCCATGTACGGGCAGGCGGGCCTGAGCCGCGCCCGCGACCCCAAGACCTACAGGCGCAGCTACACGCACG
CAAAGCCGCCCTACTCGTACATCTCGCTCATCACCATGGCCATCCAGCAGAGCCCCAACAGATGCTGACGCTGA
GCGAGATCTACAGTGGATCATGGACCTCTTCCCTTCTACCGGCAGAACCAGCAGCGCTGGCAGAACTCCATCC
GCCACTCGCTCTCCTTCAACGACTGTTTCTGAAGGTGCCCGCTCGCCCGACAAGCCCGGCAAGGGCTCCTTCT
GGACCCTGCACCCTGACTCGGGCAACATGTTTCGAGAACGGCTGCTACCTGCGCCGCCAGAAGCGCTTCAAGTGCG
AGAAGCAGCTGGCGCTGAAGGAGGCCGCGAGGCGCGCCGGCAGCGGCAAGAAGCGGCCGCCGGAGCCCGAGCCCT
CACAGGCTCAACTCGGGGAGGCCGCCGGGCGGGCCTCCGAGACTCCGGCGGGCACCGAGTCGCTCACTCGAGCG
CCTCCCCGTGCCAGGAGCACAAAGCGAGGGGGCCTGGGAGAGCTGAAGGGGACGCCGGCTGCGGCGCTGAGCCCCC
CAGAGCCGGCGCCCTCTCCCGGCAGCAGCAGCAGGCGCGGGCCACCTGCTGGGCCCCGCCACCACCCGGGCC
TGCCGCTGAGGCCCCACCTGAAGCCGGAACACCACTACGCCTTCAACCACCCGTTCTCCATCAACAACCTCATGT
CCTCGGAGCAGCAGCACCACCACAGCCACCACCACCACCAACCCCAAAAATGGACCTCAAGGCCTACGAACAGG
TGATGCACTACCCCGGCTACGGTTCCCCCATGCCTGGCAGCTTGGCCATGGGCCCCGGTCACGAACAAAACGGGCC
TGGACGCTCGCCCCCTGGCCGCAGATACCTCCTACTACCAGGGGGTGTAATCCCGGCCATTATGAACTCCTCTT
AAGAAGACGACGGCTTCAGGCCCGGCTAACTCTGGCACCCCGGATCGAGGACAAGTGAGAGAGCAAGTGGGGGTC
GAGACTTTGGGGAGACGGTGTTCAGAGACGCAAGGGAGAAGAAATCCATAACACCCCCACCCCAACACCCCAA
GACAGCAGTCTTCTTACCCGCTGCAGCGTTCCGTCCCAAACAGAGGGCCACACAGATACCCACGTTCTATAT
AAGGAGGAAAACGGGAAAGAATATAAAGTTAAAAAAAAGCCTCCGGTTTCCACTACTGTGTAGACTCCTGCTTCT
TCAAGCACCTGCAGATTCTGATTTTTTTGTTGTTGTTGTTCTCCTCCATTGCTGTTGTTGCAGGGAAGTCTTACT
TAAAAAATAAATAATTTTGTGAGTGACTCGGTGTAAACCATGTAGTTTTAACAGAACCAGAGGGTTGTACTA
TTGTTTAAAAACAGGAAAAAATAATGTAAGGGTCTGTTGTAAATGACCAAG

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FIGURE 5701

TCGCGTTCTGGGCCCCGGAGTCCGAGACAGGCGGGGACCCCGGCAGCTCCCGGTGCTATCTCTGAGCGGGTTCCG
AGCCCCACTTCCGGGCGGTCAGAATTAGCCTCAGAGCGCCGAGCAACGACGCGCCGGGGACCTCCCGCCCATGAG
GCCGGAAGGGGCGGGGAGAACGCTGCGGAATGGTCCCTGGGCGCAACGTCATTTCCGCGTACGGGGGAGGGCGGG
CCTGGAGTCTGAGCCGGCGCCGCTCAGTGTGAGGTGGTTTTCTGCGGGTGAGGCTGGCGCCCGTACCATGAGCGAG
GCGGACGGGCTGCGACAGCGCCGGCCCCCTGCGGCCGCGAGGTCGTACAGACGATGATGGCCAGGCCCGGAGGCT
AAGGACGGCAGCTCCTTTAGCGGCAGAGTTTTCCGAGTGACCTTCTTGATGCTGGCTGTTTTCTCTCACC GTTCCC
CTGCTTGGAGCCATGATGCTGCTGGAATCTCCTATAGATCCACAGCCTCTCAGCTTCAAAGAACCCCCGCTCTTG
CTTGGTGTCTGCAATCAAATACGAAGCTGCGACAGGCAGAAAGGCTGTTTGAAAATCAACTTGTTGGACCGGAG
TCCATAGCACATATTGGGGATGTGATGTTTACTGGGACAGCAGATGGCCGGGTGCTAAAACCTGAAAATGGTGAA
ATAGAGACCATTGCCCGGTTTGGTTTCGGGCCCTTGCAAACCCGAGATGATGAGCCTGTGTGTGGGAGACCCCTG
GGTATCCGTGACAGGGCCCAATGGGACTCTCTTTGTGGCCGATGCATACAAGGGACTATTTGAAGTAAATCCCTGG
AAACGTGAAGTGAAACTGCTGCTGTCTCCGAGACACCCATTGAGGGGAAGAACATGTCTTTGTGAATGATCTT
ACAGTCACTCAGGATGGGAGGAAGATTTATTTACCGATTCTAGCAGCAAATGGCAAAGACGAGACTACCTGCTT
CTGGTGATGGAGGGCACAGATGACGGGCGCCTGCTGGAGTATGATACTGTGACCAGGGGAAGTAAAAGTTTTATTG
GACCAGCTGCGGTTCCCGAATGGAGTCCAGCTGTCTCCTGCAGAAGACTTTGTCTGGTGGCAGAAACAACCATG
GCCAGGATACGAAGAGTCTACGTTTCTGGCCTGATGAAGGGCGGGGCTGATCTGTTGTGGAGAACATGCCTGGA
TTTCCAGACAACATCCGGCCCAGCAGCTCTGGGGGGTACTGGGTGGGCATGTGACCATCCGCCCTAACCCCTGGG
TTTTCCATGCTGGATTTCTTATCTGAGAGACCCTGGATTAAAGGATGATTTTTAAGCTCTTTAGTCAAGAGACG
GTGATGAAGTTTGTGCCGCGGTACAGCCTCGTCCTAGAACTCAGCGACAGCGGTGCCTTCCGGAGAAGCCTGCAT
GATCCCGATGGGCTGGTGGCCACCTACATCAGCGAGGTGCACGAACACGATGGGCACCTGTACCTGGGCTCTTTC
AGGTCCCCCTTCTCTGCAGACTCAGCCTCCAGGCTGTTTAGCCCTCCCAGATAGCTGCCCTGCCACGCAGGCC
AGGAGTCTTCACACTCAGGCACCAGGCCTGGTCCAGGAGGAGCTGTGGACACAGTCGTGGTTCAAGTGTCACAT
GCACCTGTTAGTCCCTGAGAGGTGGTGGGAATGGCTGCTTCATTCTCGAGGATGCCCGGGCCCCACCTGGGCTT
GTCTTCTGTTTAGAGGGAAGTGTAACATATCTGCCATGAGGAACATAAATTCATGTAAAGCCATTTTCTCTTAA
ACAAAACAAAACCTTTCTAAGTACAGTCATTCTCTAGGATTTGGGAAGCTCCTTGCACTTGGAAACAGGGCTCAGGT
GGGTGGAGCAGTAAGGCACTACCCAGAGAGCTTGCTGCTGCGGCCCTGTCTGCGGCCCTCAAAGTTCTTCTTTAC
TATATATAACGTGCGGTCATACCTTTCTTCGTTGTGGTGGGGATGGAAGAGCAGAGGGAGCATGGCCCAGGGGTG
TTGAGGCCAGCGGTGAGAGCCGTGTTAGCCAAGACATGGAACCTGTGTTCTCAAGGGTTATGTGGGGCGTGGGCTC
TCCATAGTGTGATGAAAAGCTTGTTGACTCTAGCGGCTCAGAGAGGACTTTGCTGGGTTTCTTCTGTGAATAT
CTCCGTGCTGACCATGCTGGAATTGGATGATTCTGCAATTCGGGACCTACTGCAGGGGTCCGTTTAGTAACGTCT
TGCTGTGATCTTTGTTCTTGACCTCTAGACCCCAAGATGTGAACAGTGCACGTGTTAATGTCATCTTTGCTCAT
GTGTTATAAGCCCCAAGTTGCTGTATTTTTACAAGTATGTCTACACACTGGTCATGATTTTGATAATAAATAA
CGATAAATCG

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FIGURE 5702

MSEADGLRQRRPLRPQVVTTDDGQAPEAKDGSSFSGRVFRVTFMLAVSLTVPLLGAMMLESPIDPQPLSFKEP
PLLLGVLHPNTKLRQAERLFENQLVGPESIAHIGDVMFTGTADGRVVKLENGEIETIARFGSGPCKTRDDEPVCG
RPLGIRAGPNGTLFVADAYKGLFEVNPWKREVKLLLSSETPIEGKNMSFVNDLTVTQDGRKIYFTDSSSKWQRRD
YLLLVMEGTDDGRLLEYDTVTREVKVLLDQLRFPNGVQLSPAEDFVLVAETTMARIRRVYVSGLMKGGADLFVEN
MPGFPDNIRPSSSGGYWVGMSITIRPNPGFSMLDFLSERPWIKRMIFKLFSQETVMKFVPRYSLVLELSDSGAFRR
SLHDPDGLVATYISEVHEHDGHLVLSFRSPFLCRLSLQAV

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FIGURE 5703

GTGGGGTCGTATCCCGCGGGTGGAGGCCGGGGTGGCGCCGGCCGGGGCGGGGAGCCCAAAGACCGGCTGCCGC
CTGCTCCCCGGAAGGGCACTCGTCTCCGTGGGTGTGGCGGAGCGCGCGGTGCATGGAATGGGCTATGTGAATG

AAAAAGGTATCCGTTATGAACTTCCAGAAAAACGAGCTACATTTTTTCAGCAGCCGCAGCACGGTCCTTGCAA
ACAAGGATGAGAAAAATATCCAACCACGGGAGCCTGCGGGTGGCGAAGGTGGCATACCCCCTGGGGCTGTGTGTG
GGCGTGTTCATCTATGTTGCCATACATCAAGTGGCACCGGGCCACCGCCACCCAGGCCTTCTTCAGCATCACCAGG
GCAGCCCCGGGGCCCGGTGGGGTCAGCAGGCCACAGCCCCCTGGGGACAGCTGCAGACGGGCACGAGGTCTTC
TACGGGATCATGTTTGATGCAGGAAGCACTGGCACCCGAGTACACGTCTTCCAGTTACCCGGCCCCCAGAGAA
ACTCCCACGTTAACCCACGAAACCTTCAAAGCAGTGAAGCCAGGTCTTTCTGCCTATGCTGATGATGTTGAAAAG
AGCGCTCAGGGAATCCGGGAACACTACTGGATGTTGCTAAACAGGACATTCCGTTTCGACTTCTGGAAGGCCACCCCT
CTGGTCTCAAGGCCACAGCTGGCTTACGCCTGTTACCTGGAGAAAAGGCCAGAGTTACTGCAGAAGGTGAAA
GAAGTATTTAAAGCATCGCCTTTCTTGTAGGGGATGACTGTGTTTCCATCATGAACGGAACAGATGAAGGCGTT
TCGGCGTGGATCACCATCAACTTCTTGACAGGCAGCTTGAAAACCTCAGGAGGGAGCAGCGTGGGCATGCTGGAC
TTGGGCGGAGGATCCACTCAGATCGCCTTCTTGCCACGCGTGGAGGGCACCTGCAGGCCTCCCCACCCGGCTAC
CTGACGGCACTGCGGATGTTTAAACAGGACCTACAAGCTCTATTCTACAGCTACCTCGGGCTCGGGCTGATGTG
GCACGCTGGCGATCCTGGGCGGCGTGGAGGGGCAGCCTGCTAAGGATGGAAGGAGTTGGTCAGCCCTTGCTTG
TCTCCAGTTTCAAAGGAGAGTGGGAACACGCAGAAGTCACGTACAGGGTTTCAGGGCAGAAAGCAGCGGCAAGC
CTGCACGAGCTGTGTGCTGCCAGAGTGTGAGAGTCTTCAAACAGAGTGCACAGGACGGAGGAAGTGAAGCAT
GTGGACTTCTATGCTTTCTCCTACTATTACGACCTTGACAGCTGGTGTGGGCTCATAGATGCGGAGAAGGGAGGC
AGCCTGGTGGTGGGGGACTTCGAGATCGCAGCCAAGTACGTGTGTGCGACCTGGAGACACAGCCGAGAGCAGC
CCCTTCTCATGATGGACCTACCTACGTGACCTGCTACTCCAGGAGTTCCGGCTTTCCAGGAGCAAAGTGCTG
AAGCTCACTCGGAAAATTGACAATGTTGAGACCAGCTGGGCTCTGGGGGCCATTTTTTCATTACATCGACTCCCTG
AACAGACAGAAGAGTCCAGCCTCATAGTGGCCGAGCCATCCCTGTCCCGTCAGCAGTGTCTGTGTGTCTGCATA
AACCTCCTGTCTGGACGTGACTTCATCCTGAGGAGCCACAGCACAGGCCGTGCTGGCACTTTCTGCACACTGG
CTCTGGGACTTGAGAAGGCCTGGTGTGCTGCCCTGGCATCAGCCTCTTCCAGTCACATCTGGCCAGAGGGCTGTCT
GGACCTGGGCOCTGCTCAATGCCACCTGTCTGCTGGGCTCCAAGTGGGCAGGACCAGGACAGAACCACAGGCAC
ACACTGAGGGGGCAGTGTGGCTCCCTGCCCTGTCCCATCCCCATGCCCGTCCGCGGGGCTGTGGCTGTGTGTG
CATGTCCCTGCGATGGGAGTCTTGTCTCCAGCCTGTGAGTTTCTTCCAGGGCAGAGCTCCCTTCTGCAAG
AGTCTGGGAGGCGGTGCAGGCTGTCTGGCTGCTCTGGGGAAGCCGAGGGACAGCCATAACACCCCCGGGACAGT
AGGTCTGGGCGGCACCACTGGGAACCTGGACTTGAGTGTGTTTGTCTTCTTGGGTATGAATGTGTGAGTTCA
CCCAGAGGCCTGCTCTCCTCACACATTGTGTGGTTTGGGGTTAATGATGGAGGGAGACACCTCTCATAGACGGC
AGGTGCCCACCTTTAGGGAGTCTCCAGCATGGGCGGATGCCGGCATGAGCTGCTGTAAACTATTTGTGGCTG
TGCTGCTTGAGTGACGTCTGTGCTGTGGGTGCCAAGTGTCTGTGTAGAACTGTGTTCTGAGCCCCCTTTCT
GGACACCAACTGTGTCTGTGAATGTATCGCTACTGTGAGCTGTTCCCGCTAGCCAGGGCCATGTCTTAGGTGC
AGCTGTGCCACGGGTGAGTGTGAGCCACAGTCCCAGAACCAAGCTCTCGGTGTCTCGGGCCACCATCCGCCACCT
CGGGCTGACCCACCTCCTCCATGGACAGTGTGAGCCCCGGGCGTGCATCCTGCTCAGTGTGGCGTCAGTGTG
GGGCTGAGCCCCCTTGAAGTGTCTCAGTGAATGTACAGTGCCCGGCACGAGCTGAACCTCATGTGTTCCACTCCCA
ATAAAAGGTTGACAGGGGCTTCTCCTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5704

MKKGIRYETSRKTSYIFQQPQHGPWQTRMRKISNHGSLRVAKVAYPLGLCVGVFIYVAYIKWHRATATQAFFSIT
RAAPGARWGQQAHSPLGTAADGHEVFYIGIMFDAGSTGTRVHVFQFTRPPRETPTLTHETFKAVKPGLSAYADDVE
KSAQGIRELLDVAQDIPFD FWKATPLVLKATAGLRLLPGEKAQKLLQKVKEVFKASPFLVGDDCVSIMNGTDEG
VSAWITINFLTGSLKTPGGSSVGMLDLGGGSTQIAFLPRVEGTLQASPPGYLTALRMFNRTYKLYSYSYLGGLM
SARLAILGGVEGQPAKDGKELVSPCLSPSFKGEWEHAEVTYRVSGQAAAASLHELCAARVSEVLQNRVHRTEEVK
HVD FYAFSYYYDLAAGVGLIDAEKGGSLVVGDFEIAAKYVCRTLETQPQSSPFSCMDLTYVSLLLQEF GFPRSKV
LKLTRKIDNVETSWALGAIFHYIDSLNRQKSPAS

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FIGURE 5705A

GAGCAGCTGCACCATCCCGGCGTTGCGGTGTGCCGCCGCTTTCTCTCCATCTCTTTTCTCCGCTCCGCCGG
CGCGATGGCGAAGCCGCTGACGGACAGCGAGAAGCGGAAGCAGATCAGCGTGCGCCGCCCTGGCGGGGCTAGGCGA
CGTGGCCGAGGTGCGGAAGAGCTTCAACCGGCACTTGCACTTACGCTGGTCAAGGACC GCAATGTGGCCACGCC
CCGCGACTACTTCTTCGCGCTGGCGCACACGGTGC CGCACACCTCGTGGGCCGCTGGATCCGCACGCAGCAGCA
CTACTACGAGCGCGACCCCAAGCGCATTTATTATCTTTCCCTGGAATTCTACATGGGTGCGACGCTGCAGAACAC
GATGGTGAACCTGGGCCCTT CAGAATGCCTGCGATGAAGCCATCTATCAGTTGGGGTTAGACTTGGAGGAAC TCGA
GGAGATAGAAGAAGATGCTGGCCTTGGGAATGGAGGCCTGGGGAGGCTGGCAGCGTGTTCCTTGACTCAATGGC
TACCTTGGGCCCTGGCAGCATACGGCTATGGAATCCGCTATGAATTTGGGATTTTAAACCAGAAGATTGTCAATGG
CTGGCAGGTAGAGGAGGCCGATGACTGGCTGCGCTACGGCAACCCCTGGGAGAAAGCGCGGCCCTGAGTATATGCT
TCCCGTGCACTTCTACGGACGCGTGGAGCACACCCCGACGGCGTGAAGTGGCTGGACACACAGGTGGTGTGGC
CATGCCCTACGACACCCAGTGCCCGGCTACAAGAACAACACCGTCAACACCATGCGGCTGTGGTCCGCCAAGGC
TCCCAACGACTTCAAGCTGCAGGACTTCAACGTGGGAGACTACATCGAGGCGGTCTGGACCGGAAC TGGCTGA
GAACATCTCCAGGGTCTGTATCCAAATGATAACTTCTTTGAGGGGAAGGAGCTGCGGCTGAAGCAGGAGTACTT
CGTGGTGGCCGCCACGCTCCAGGACATCATCCGCCGCTTCAAGTCGTCCAAGTTCGGCTGCCGGGACCCTGTGAG
AACCTGTTTCGAGACGTTCCAGACAAGGTGGCCATCCAGCTGAACGACACCCACCCCGCCCTCTCCATCCCTGA
GCTCATGCGGATCCTGGTGGACGTGGAGAAGGTGGACTGGGACAAGGCCTGGGAAATCACGAAGAAGACCTGTGC
ATACACCAACCACACTGTGCTGCCTGAGGCCTTGGAGCGCTGGCCCGTGTCCATGTTTGAGAAGCTGCTGCCCGC
GCACCTGGAGATAATCTATGCCATCAACAGCGGCACCTGGACCAGTGGCCGCGCTGTTTCCCGCGCATGTGGA
CCGCTGCGCAGGATGTCTGTGATCGAGGAGGGGACTGCAAGCGGATCAACATGGCCCACTGTGTGTGATTGG
GTCCCATGCTGTCAATGGTGTGGCGAGGATCCACTCGGAGATCGTGAAACAGTCGGTCTTTAAGGATTTTTATGA
ACTGGAGCCAGAGAAGTTCAGAATAAGACCAATGGCATCACCCCGCCGGTGGCTGCTGTGTGCAACCCGGG
GCTGGCCGATACCATCGTGGAGAAAATTGGGGAGGAGTTCCTGACTGACCTGAGCCAGCTGAAGAAGCTGCTGCC
GCTGGTCAGTGACGAGGTGTTTCATCAGGGACGTGGCCAAGGTCAAACAGGAGAACAGCTCAAGTTCTCGGCCTT
CCTGGAGAAGGAGTACAAGGTGAAGATCAACCCCTCCTCCATGTTTCGATGTGCATGTGAAGAGGATCCACGAGTA
CAAGCGGCAGCTGCTCAACTGCCTGCACGTGCTCACCCTGTACAATCGAATCAAGAGAGACCCGGCCAAGGCTTT
TGTGCCCAGGACTGTTATGATTGGGGGCAAGGCAGCGCCCGTTTACCACATGGCCAAGCTGATCATCAAGTTGGT
CACCTCCATCGCGCAGCTCGTCAATCATGACCCAGTTGTGGGTGACAGGTTGAAAGTGATCTTCTGGAGAACTA
CCGTGTGTCCTTGGCTGAGAAAGTGATCCCGGCCGTGATCTGTGCGCAGCAGATCTCCACTGCAGGCACCGAGGC
CTCAGGCACAGGCAACATGAAGTTTCATGCTCAACGGGGCCCTCACCATCGGCACCATGGACGGCGCCAACGTGGA
GATGGCCGAGGAGGCCGGGGCCGAGAACCTTTCATCTTCGGCTGCGGGTGGAGGATGTCGAGGCCTTGGACCG
GAAAGGGTACAATGCCAGGGAGTACTACGACCACCTGCCCGAGCTGAAGCAGGCCGTGGACCAGATCAGCAGTGG
CTTTTTTTCTCCCAAGGAGCCAGACTGCTTCAAGGACATCGTGAACATGCTGATGCACCATGACAGGTTCAAGGT
GTTTGCAGACTATGAAGCCTACATGCAGTGCCAGGCACAGGTGGACCAGCTGTACCGGAACCCCAAGGAGTGGAC
CAAGAAGGTCAATCAGGAACATCGCCTGCTCGGGCAAGTTCCTCAGTGACCGGACCATCAGGGAGTATGCACGGGA
GATCTGGGGTGTGGAGCCCTCCGACCTGCAGCTTCAGCACCTGCCCCACCCAGAGTGGGAGTCAGGTGGAGCCAC
CTGCTGGGCTCCCCAGAACTTTGCACACATCTTGCTATGTATTAGCCGATGTCTTTAGTGTTGAGCCTCTGGAT
TCTGGGGTCTGGGCCAGTGGCCATAGTGAAGCCTGGGAATGAGTGTTACTGCAGCATCTGGGCTGCCAGCCACAG
GGAAGGGCCAAGCCCCATGTAGCCCCAGTCATCTGCCAGCCCTGCCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCTAGG
CCTCTAGGCATCGCCTTACAGCCCCCTGCCCTTGCCTCTGTCTGGCTCTGCACCTGGTATATGGGTCTAGG
ACCCAGATGGGGCTTTCCCTTTGTAGCCATCCAATGGGCATTGTGTGGGTGCTTGAACCCGGGATGACTGAGGG
GGACACTGGAGTGGGTGCTTGTGTCTGCTGTCTCAGAGGCCTTGGTCAGGATGAAGTTGGCTGCACAGCTTAGC
TTGGTTTTGCTTATTCAAAGAGAAAATAACTACACATGGAAATGAAACTAGCTGAAGCCTTTTCTGTGTTTTAGC
AACTGAAATTTGACTTGGTCACTTTTGTGCTTGAGGAGGCCCATTTTCTGCCTGGCAGGGGGCAGGTCTGTGCC
CTCCGCTGACTCCTGCTGTGTCCTGAGGTGCATTTCTGTTGTACACACAAGGGCCAGGCTCCATTCTCCCTCC
CTTTCCACAGTGCCACAGCCTCGTCTGGA AAAAGGACCAGGGGTCCCGAGGAACCCATTTGTGCTCTGCTTGG
ACAGCAGGCCTGGCACTGGGAGGTGGGGGTGAGCCCTCAGACCTTGCCCTCCCCAAGGCTGGCAACCTGCCCT
CCCATTGCCCAAGAGAGAGGGCAGGGAACAGGCTACTGTCTTCCCTGTGGAATTGCCGAGAAATCTAGCACCTT
GCATGCTGGATCTGGGCTGCGGGGAGGCTCTTTTCTCCCTGGCCTCCAGTGCCACCAGGAGGATCTGCGCACG

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FIGURE 5705B

GTGCACAGCCCACCAGAGCACTACAGCCTTTTATTGAGTGGGGCAAGTGCTGGGCTGTGGTCGTGCCCTGACAGC
ATCTTCCCCAGGCAGCGGCTCTGTGGAGGAGGCCATACTCCCTAGTTGGCCACTGGGGCCACCACCTGACCAC
CACTGTGCCCCCTCATTGTTACTGCCTTGTGAGATAAAACTGATTAAACCTTTGTGGCTGTGGTTGGC

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FIGURE 5706

AGGCTACGGTTTCGCGCCAGCGGCCGGCGCTATGGGGCTGAGCCGCGTGCGGGCGGGTTTTCTTTGACTTGGACAAC
ACTCTCATCGACACGGCCGGGGCGAGCAGGAGAGGCATGTTGGAGGTGATAAACTCTTACAATCAAAATACCAT
TATAAAGAAGAGGCTGAAATCATCTGTGATAAAGTTCAAGTTAAACTCAGCAAGGAATGTTTTCATCCTTACAAT
ACATGCATTACTGATTTAAGGACTTCACATTGGGAAGAAGCAATCCAGGAAACAAAAGGTGGTGCAGCCAATAGA
AAATTGGCTGAAGAATGTTATTTCTTTTGAAATCTACACGTTTACAGCATATGACACTAGCAGAAGACGTCAAA
GCCATGCTTACTGAACTTCGAAAGGAGGTCCGCCTACTTCTATTAAACGAATGGGGACAGACAGACCCAGAGGGAG
AAGATTGAGGCTTGTGCCTGTGAGTCTATTTTGACGCTGTTGTTGTAGGTGGAGAGCAGAGAGAGGAGAAACCA
GCACCGTCCATATTTTATTACTGCTGCAATCTTCTCGGAGTACAACCTGGGGACTGTGTGATGGTTCGGTGACACA
TTAGAAACCGACATCCAAGGAGGCCTCAATGCAGGATTGAAAGCAACAGTCTGGATCAATAAAAAATGGAATAGTG
CCACTGAAGTCTCTCCCAAGTTCGCGATTACATGGTTTTCTTCTGTGCTAGAGTTACCTGCTCTCTTACAAAGTATA
GACTGCAAAGTCAGTATGTCCACTTAAAGCACATAAAAGGGCATGATTATGAATGTTAGAATCAATTTGCTGAGT
ATGAAATAAGAAAAGTTAGGGCACTCCACTTATGATAATCCAGCTCTAAGAAATAATTTTACTTATGATTTAATGG
CCAATATTTTGAAGGTCTTCCCAACCTATTGCTTCTAAGTTGTAACAACCAACCAATTGAGTGGTACTTATATCT
GAAAATTCAGATTGCATGAATTCAGGTGAGTAGTATAGCCCAGAAAATTTAAGGAAATATATTATTTGTTAGTCT
GTATCTGGAGCTTTTTTAAATATGTTATTAATCTTTTAGTATCTTGGCTGCATAATGCCAAGCAGGATTGCTTT
ACACATGGATGCACAAATGTAAGGTTTATCTTCTGGCTTAAAAATAGATATTTTAAAAAATAGATTTTCTAAAA
CACAGATTTATGAAAGCAAGTGAATCTGGTTAATATGAAATAAGTACTAAGTCACATGCAAAATCAAGGTATTATA
TAGTGAAATTATTTTGCATATTTTGAACATAAAACCATAGTTTTTGGCTACTTTGGATGTATACTTTCTTTTAT
GAACCTGATTTTCTGTATGACATTTTTTTTTTTTTCAGAGGGCAGGGAGCAATTTTCTATGGCATGTGACAGA
TTCCTCCAGTTAGAAAAAGCTGTTAAATCAACACATGGTGCTCCTTTACCGTGACATTTTCTCACCTGTGCACA
GTGAGCCGGTAGCTTCTTTTAGTCTTCACCTCTCAAGGAAATGTTTTTACTGTCTTTTCCCAGACACACAGTGG
GGTTGAGGGAGCTAGGCTGTTTTGCTAGAGATAATTGCAAGGCACGTGGCACTAAAAGTCATTTTCTTCTGTGG
ATCCATAAGAGGAACATTTCTCAGTGTAGCCTAACAATGCAGCCCCCAATCTGTTCTTTTTTTTTTGAATG
GGATCTCTGTGCGCCAGGTTGGAGTGCCATGGCACCATCTCGGCTCACTGCAACCTCTGCCTCCTGAGCTCAAGT
GATCCTCCCACCTCAGCCTCCCAAGGGTGTGTGTGACTACAAGTACACACTACCACGCCAGCTAATGTGTGTTT
TTGTAGAGATGGGATTTTGCCATGTTGCCAGGCTGGTCTCGAATTCCTGGATTCAAGTGATCCTCCCACCTCAG
CCTCCTAAAGTCTTAGGATTATAGGCATGAGCCACTGTGCCTGGCCCCCTCATCTGATAGAAAATTAGATTTTGC
TATGAGCCATTTCTGAGGGCCAATTTAATACTCGTGTGACTCTTCTAGAGTTACCATCTGCCTTAAATTTCTT
CTGTTTTTACATTTCTTGAAATATATCATTGTTTTGCAAATTTCTATATCTAATTCAGGGTTTACCAGGAGCTT
AATAATTAATGGCTACATAGCAAGGCATCGTCTTGGAACCGGAGAAATTTCTCTAGACTATTAGGCTAGACAGTC
TCATGATTATACTAACCAACCTGGAGTAAAGTGGTTGAAAAAAGAAAGTATAAAGGGGCTTATTAAAGTGGT
TAATAAATATGA

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FIGURE 5707

MGLSRVRAVFFDLDTLIDTAGASRRGMLEVIKLLQSKYHYKEEAEIICDKVQVKLSKECFHPYNTCITDLRTSH
WEEAIQETKGGGAANRKLAEECYFLWKSTRLQHMTLAEDVKAMLTCLRKEVRLLLLTINGDRQTQREKIEACACQSY
FDAVVVGGEQREEKPAPSIFFYYCCNLLGVQPGDCVMVGDITLETDIQGGLNAGLKATVWINKNGIVPLKSSPVPHY
MVSSVLELPAALLQSIDCKVSMST

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FIGURE 5708

CTTCCTGTTGCCTTAGGGGAACGTGGCCTTTCCCTGCAGAGCCGGTGTCTCCGCCTGCGTCCCTGCTGCAGCAACC
GGAGCTGGAGTCGGATCCCCGAACGCACCCCTCGCCATGGACTCGGCCCTCAGCGATCCGCATAACGGCAGTGCCGA
GGCAGGCGGCCCCACCAACAGCACTACGCGGCCCGCCTTCCACGCCCAGGGGCATCGCGCTGGCCTACGGCAGCCT
CCTGCTCATGGCGCTGCTGCCCCATCTTCTTCGGCGCCCTGCGCTCCGTACGCTGCGCCCCGCGGCAAGAATGCTTC
AGACATGCCTGAAAACAATCACCAGCCGGGATGCCGCCCGCTTCCCCATCATCGCCAGCTGCACACTCTTGGGGCT
CTACCTCTTTTTCAAAAATATTCTCCCAGGAGTACATCAACCTCCTGCTGTCCATGTATTTCTTCGTGCTGGGAAT
CCTGGCCCTGTCCACACCATCAGCCCCCTTCATGAATAAGTTTTTCCAGCCAGCTTTCCAAATCGACAGTACCA
GCTGCTCTTACACAGGGTTCTGGGGAAAACAAGGAAGAGATCATCAATTATGAATTTGACACCAAGGACCTGGT
GTGCTGGGCCTGAGCAGCATCGTTGGCGTCTGGTACCTGCTGAGGAAGCACTGGATTGCCAACAACCTTTTGG
CCTGGCCTTCTCCCTTAATGGAGTAGAGCTCCTGCACCTCAACAATGTCAGCACTGGCTGCATCCTGCTGGGCGG
ACTCTTCATCTACGATGTCTTCTGGGTATTTGGCACCAATGTGATGGTGACAGTGGCCAAGTCCTTCGAGGCACC
AATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAAGGCCTCGAAGCAAACAACCTTTGCCATGCTGGGACTTGG
AGATGTCGTCATTCCAGGGATCTTCATTGCCTTGCTGCTGCGCTTTGACATCAGCTTGAAGAAGAATACCCACAC
CTACTTCTACACCAGCTTTGCAGCCTACATCTTCGGCCTGGGCCTTACCATCTTCATCATGCACATCTTCAAGCA
TGCTCAGCCTGCCCTCCTATACCTGGTCCCCGCCTGCATCGGTTTTCTGTCCTGGTGGCGCTGGCCAAGGGAGA
AGTGACAGAGATGTTTACGTACGAGTCCTCGGCGGAAATCCTGCCTCATACCCCGAGGCTCACCCACTTCCCCAC
AGTCTCGGGCTCCCCAGCCAGCCTGGCCGACTCCATGCAGCAGAAGCTAGCTGGCCCTCGCCGCCGGCGCCCCGA
GAATCCCAGCGCCATTTATGAGGAGTCAAATCCTAAGGATCCAGCGGCAGTGACAGAATCCAAAGAGGGGAACAGA
GGCATCAGCATCGAAGGGGCTGGAGAAGAAAGAGAAATGATGCAGCTGGTGCCCGAGCCTCTCAGGGCCAGACCA
GACAGATGGGGGCTGGGCCCACACAGGCGTGCACCGGTAGAGGGCACAGGAGGCCAAGGGCAGCTCCAGGACAGG
GCAGGGGGCAGCAGGATACCTCCAGCCAGGCCTCTGTGGCCTCTGTTTCCTTCTCCCTTTCTTGGCCCTCCTCTG
CTCCTCCCCACACCCCTGCAGGCAAAAGAAACCCCCAGCTTCCCCCTCCCCGGGAGCCAGGTGGGAAAAGTGGGT
GTGATTTTATGATTTGTATTGTGGACTGATTTTGCTCACATTAAAACTCATCCCATGGCCAGGGCGGGCCAC
TGTGCTCCTGGAA

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FIGURE 5709

MDSALSDPHNGSAEAGGPTNSTTRPPSTPEGIALAYGSLLL MALLPIFFGALRSVRCARGKNASDMPETITSRDA
ARFP IIASCTLLGLYLFFKIFSQEYINLLLSMYFFVLGILALSHTISPFMNKFFPASFPNRQYQLLFTQGSGENK
EEI INYEFDTKDLVCLGLSSIVGVWYLLRKHWHIANNLFGLAFSLNGVELLHLNNVSTGCILLGGLFIYDVFWVFG
TNVMVTVAKSFEAPIKLVFPQDLLEKGLEANNFAMLGLGDVVIPGIFIALLLRFDISLKKNTHTYFYTSFAAYIF
GLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVTEMF SYEESNPKDPAAVTEKTEASASKGLEKK
EK

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FIGURE 5710

GTTCCATTTTCCGTATCTGCTTCGGGCTTCCACCTCATTTTTTTTCGCTTTGCCCATTCCTGTTTCAGCCAGTCGCC
AAGAATCATGAAAGTCGCCAGTGGCAGCACCGCCACCGCCGCCGCGGGCCCCAGCTGCGCGCTGAAGGCCGGCAA
GACAGCGAGCGGTGCGGGCGAGGTGGTGCGCTGTCTGTCTGAGCAGAGCGTGGCCATCTCGCGCTGCGCCGGGGG
CGCCGGGGCGCGCCTGCCTGCCCTGCTGGACGAGCAGCAGGTAAACGTGCTGCTCTACGACATGAACGGCTGTTA
CTCACGCCTCAAGGAGCTGGTGCCACCCCTGCCCCAGAACCGCAAGGTGAGCAAGGTGGAGATTCTCCAGCACGT
CATCGACTACATCAGGGACCTTCAGTTGGAGCTGAACTCGGAATCCGAAGTTGGAACCCCGGGGGCCGAGGGCT
GCCGGTCCGGGCTCCGCTCAGCACCCCTCAACGGCGAGATCAGCGCCCTGACGGCCGAGGTGAGATCCAGATCCGA
CCACTAGATCATCCTTATACCGACGGGGAAACGGAGGCCAGAGAGGGCGTGGGCGCTTGACCACCTCCGTCCCA
TCCTTGCGGGTACCTGGCTATGCGGGGGTGCCCTAAGGAGCCTGGAAAAAGCGCTCCCCCGTCGTGCTTCCTGGGG
AAGGGGGCGTTTCGCTGCGCTCGGAGCGGCGTCCCTTCCAACCCGCCGGTCTCATTTCTTCGTTTTACAGGCG
GCATGCGTTTCCTGCGGACGATCGCATCTTGCTGCTGCTGAAGCGCCTCCCCCAGGGACCGGCGGACCCAGCCATC
CAGGGGGCAAGAGGAATTACGTGCTCTGTGGGTCTCCCCAACGCGCCTCGCCGGATCTGAGGGAGAACAAGACC
GATCGGCGGCCACTGCGCCCTTAAGTGCATCCAGCCTGGGGCTGAGGCTGAGGCACTGGCGAGGAGAGGGCGCTC
CTCTCTGCACACCTACTAGTCACCAGAGACTTTAGGGGGTGGGATTCCACTCGTGTGTTTCTATTTTTTGAAAAG
CAGACATTTTAAAAAATGGTCACGTTTGGTGCTTCTCAGATTTCTGAGGAAATTGCTTTGTATTGTATATTACAA
TGATCACCGACTGAAAATATTGTTTTACAATAGTTCTGTGGGGCTGTTTTTTTGTATTAAACAAATAATTTAGA
TGGTG

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FIGURE 5711

MKVASGSTATAAAGPSCALKAGKTASGAGEVVRCLSEQSVAISRCAGGAGARLPALLDEQQVNVLLYDMNGCYSR
LKELVPTLPQNRKVSKVEILQHVIDYIRDQLLELNSESEVGTPGGRGLPVRAPLSTLNGEISALTAEACVPADD
RILCR

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FIGURE 5712

GAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCAACCCTA
GTCCCTTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTT
TATGGCCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGT
TCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCA
GGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGCCTGGCTCCTGAGGGGCATCTGCCCCTCCCCCA
ACCCCCACCCACACTTGTTCCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTG
TGTTTACTCAGTG

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FIGURE 5713

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTGGCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTGGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCTCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAAGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCTTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCCG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGGGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTCGCATTGTGGCCTTTTTCTCTCTTCGGCGGGGCAGTGTGCTGGAA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAATCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTTCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAAATGACACAGACACTGACCATCCACTCTACCCCTCCACCCCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCACTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCTTTCTTCCATCCCTACCCCCTAAGAGCCATTTAG
GGGCCACTTTTGACTAGGGATTAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTCAGCACCACCCTAGTCCC
TTCCCTTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCATCTTTGCCCTTGGGCTGCTCCTCATGGTGGGTTTCAAG
GACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCAATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCTGCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCTTGGCCTGTCTCATCCCCAGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGATGATATACTATTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCCTGTCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCTTGCCTGGTCCAGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5714

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAE SRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 5715

GGGAGCAGCTAGGGCGCGGGTCTCCCTCCTCCCGAGTTTGGAACGGCTGAAGTTCACCTTCCAGCCCCCTAGCGC
CGTTCGCGCCGCTAGGCCTGGCTTCTGAGGCGGTTGCGGTGCTCGGTGCGCCCTAGGCGGGGCAGGGTGCGAGC
AGGGGCTTCGGGCCACGCTTCTCTTGGCGACAGGATTTTGTGTAAGTCCGTCCGGGAAACGGAGGAAAAAAGAG
TTGCGGGAGGCTGTGCGCTAATAACGGTTCTTGATACATATTTGCCAGACTTCAAGATTTAGAAAAGGGGTGAA
AGAGAAGATTGCAACTTTGAGTCAGACCTGTAGGCCTGATAGACTGATTAAACCACAGAAGGTGACCTGCTGAGA
AAAGTGGTACAAATACTGGGAAAAACCTGCTCTTCTGCGTTAAGTGGGAGACAATGTCACAAGTTAAAAGCTCTT
ATTCTATGATGCCCCCTCGGATTTTCATCAATTTTTTCATCCTTGGATGATGAAGGAGATACTCAAAACATAGATT
CATGGTTTGAGGAGAAGGCCAATTTGGAGAATAAGTTACTGGGGAAGAATGGAACCTGGAGGGCTTTTTTCAGGGCA
AAACTCCTTTGAGAAAGGCTAATCTTCAGCAAGCTATTGTACACCTTTGAAACCAGTTGACAACACTTACTACA
AAGAGGCAGAAAAAGAAAATCTTGTGGAACAATCCATTCCGTCAAATGCTTGTCTTCCCTGGAAGTTGAGGCGAG
CCATATCAAGAAAAACTCCAGCCCAGCCTCAGAGAAGATCTCTTAGGCTTTCTGCTCAGAAGGATTTGGAACAGA
AAGAAAAGCATCATGTAAAAATGAAAGCCAAGAGATGTGCCACTCCTGTAATCATCGATGAAATTCTACCCCTCTA
AGAAAATGAAAGTTTCTAACAACAAAAAGAAGCCAGAGGAAGAAGGCAGTGTCTCATCAAGATACTGCTGAAAAGA
ATGCATCTTCCCCAGAGAAAGCCAAGGGTAGACATACTGTGCCTTGTATGCCACCTGCAAAGCAGAAAGTTTCTAA
AAAGTACTGAGGAGCAAGAGCTGGAGAAGAGTATGAAAATGCAGCAAGAGGTGGTGAGATGCGGAAAAAGAATG
AAGAATTCAAGAACTTGCTCTGGCTGGAATAGGGCAACCTGTGAAGAAATCAGTGAGCCAGGTACCCAAATCAG
TTGACTTCCACTTCCGCACAGATGAGCGAATCAAACAACATCCTAAGAACCAGGAGGAATATAAGGAAGTGAACT
TTACATCTGAACTACGAAAGCATCCTTCATCTCCTGCCCGAGTGACTAAGGGATGTACCATTGTTAAGCCTTTCA
ACCTGTCCCAAGGAAAGAAAAGAACATTTGATGAAACAGTTTCTACATATGTGCCCTTGACAGCAAGTTGAAG
ACTTCCATAAACGAACCCCTAACAGATATCATTTGAGGAGCAAGAAGGATGATATTAACCTGTTACCCTCCAAAT
CTTCTGTGACCAAGATTTGCAGAGACCCACAGACTCCTGTACTGCAAACCAACACCGTGCACGGGCTGTGACCT
GCAAAAGTACAGCAGAGCTGGAGGCTGAGGAGCTCGAGAAATTGCAACAATACAAATTCAAAGCACGTGAACTTG
ATCCCAGAATACTTGAAGGTGGGCCCATCTTGCCCAAGAAACCACCTGTGAAACCACCCACCGAGCCTATTGGCT
TTGATTTGGAATTTGAGAAAAGAAATCCAGGAGCGAGAATCAAAGAAGAAAACAGAGGATGAACACTTTGAATTC
ATTCCAGACCTTGCCCTACTAAGATTTTGAAGATGTTGTGGGTGTTCTGAAAAGAAGGTACTTCCAATCACCG
TCCCCAAGTCACCAGCCTTTGCATTGAAGAACAGAATTCGAATGCCACCACAAAGAAGATGAGGAAGAGGACGAAC
CGGTAGTGATAAAAGCTCAACCTGTGCCACATTATGGGGTGCCTTTTAAGCCCCAAATCCAGAGGCAAGAAGTGT
TGGAATATGCCCCTTTCTCGTTTGATTCTCGAGACAAGAACGTCAGTTACAGAAGGAGAAGAAAATAAAGAAC
TGCAGAAAGGGGAGGTGCCCAAGTTCAAGGCACTTCCCTTGCCCTCATTTTGACACCATTAACTGCCAGAGAAGA
AGGTAAAGAATGTGACCCAGATTGAACCTTTCTGCTTGGAGACTGACAGAAGAGGTGCTCTGAAGGCACAGACTT
GGAAGCACAGCTGGAAGAAGAACTGAGACAGCAGAAAGAAGCAGCTTGTTTCAAGGCTCGTCCAAACACCGTCA
TCTCTCAGGAGCCCTTTGTTCCCAAGAAAGAGAAGAAATCAGTTGCTGAGGGCCTTTCTGGTTCTCTAGTTTCAAG
AACCTTTTTCAGCTGGCTACTGAGAAGAGAGCCAAAGAGCGGAGGAGCTGGAGAAGAGAATGGCTGAGGTAGAAG
CCCAGAAAGCCAGCAGTTGGAGGAGGCCAGACTACAGGAGGAAGAGCAGAAAAAAGAGGAGCTGGCCAGGCTAC
GGAGAGAAGTGGTGATAAGGCCAAATCCAATACGCAAGTACCAGGGTCTGGAGATAAAGTCAAGTGACCAGCCTC
TGACTGTGCCTGTATCTCCCAAATTTCTCCACTCGATTCCACTGCTAAACTCAGCTGTGAGCTGCGGATACCGCCC
GGCAATGGGACCTGCTCTTAACCTCAAACCTAGGACCGTCTTGCTTTGTCAATTGGGCATGGAGAGAACCCATTTT
TCCAGACTTTTACCTACCCGTGCCTGAGAAAGCATACTTGACAACCTGTGGACTCCAGTTTTGTTGAGAATTGTTT
TCTTACATTACTAAGGCTAATAATGAGATGTAACCTCATGAATGTCTCGATTAGACTCCATGTAGTTACTTCCCTT
AAACCATCAGCCGGCCTTTTATATGGGTCTTCACTCTGACTAGAATTTAGTCTCTGTGTGACACAGTGTAATCT
CTATTGCTATTGCCCTTACGACTCTCACCTCTCCCCACTTTTTTTAAAAATTTTAAACCAGAAAAATAAGATAG
TTAAATCCTAAGATAGAGATTAAGTCATGGTTTTAAATGAGGAACAATCAGTAAATCAGATTCTGTCTCTTCTCT
GCATACCGTGAAATTTATAGTTAAGGATCCCTTTGCTGTGAGGGTAGAAAACTCACCAACTGCACCAAGTGAGGAA
GAAGACTGCGTGGATTATGGGGAGCCTCACAGCAGCCACGCAGCAGGCTCTGGGTGGGGCTGCCGTTAAGGCAC
GTTCTTTCTTACTGGTGCTGATAACAACAGGGAACCGTGCAAGTGTGCATTTAAGACCTGGCCTGGAATAAATA
CGTTTTGTCTTTCCCTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5716

MSQVKSSYSYDAP SDFINFSSLDDEGDTQNIDSWFEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTFLK
PVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQFQRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVI
IDEILPSKMKMVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEV
VEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRDTERIKQHPKNQEEYKEVNFTSELRKHPSSPARVTKG
CTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTK
HRARAVTCKSTAELEAELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTPIGFDLEIEKRIQERESKKKT
EDEHFEFHSRCPCTKILEDVVGVPKVKLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVVIKAQPVPHYGVFPKP
QIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDITINLPEKKVKNVTQIEPFCLETDRR
GALKAQTWKHQLEEEELRQKKEAACFKARPNTVISOEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELE
KRMAEVEAQKAQQLEEARLQEEEQKKEELARLRRELHVHKNPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC

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FIGURE 5717

GGCAGGCTATTCCGGACGCCAGCCCTGGAAGCTGAGCCTGACCCAGCAGGTCCCAGCAGCCTGGCAGCCCGGCCA
GCATGCAGCAGCAGCCTCTGCCCCGGGCCTGGCGCCCCACAAGCTGAGCCAACCAAGCCTCCCTACAGCTACATCG
CCCTTATTGCTATGGCCATCCAGAGCTCACCAGGGGAGCGGGCCACCCTCAGTGGCATCTACCGCTACATCATGG
GCCGATTGCGCTTCTACCGCCACAACCGGCCCCGGCTGGCAGAACAGCATCCGCCACAACCTGTCACTCAACGAGT
GCTTTGTCAAGGTGCCCCGCGATGACCGCAAGCCAGGCAAGGGCAGCTACTGGACGCTGGACCCCTGACTGCCACG
ACATGTTTGAGCACGGCAGCTTCCTACGCCGCCGCCGCCGCTTCACCCGGCAGACAGGTGCTGAGGGCAGCCCGGG
GCCCCGCCAAGGCACGCCGTGGACCCCTCAGGGCGACCAGCCAGGACCCAGGAGTCCCCAACGCCACGACCGGCA
GGCAGTGCTCATTCCCACCAGAGCTGCCAGATCCCAAGGGCCTAAGCTTTGGGGGTCTGGTGGGGGCCATGCCAG
CCAGTATGTGCCCAGCAACCACTGATGGCAGGCCTCGGCCACCCATGGAGCCCAAAGAGATTCCACGCCCAAGC
CTGCATGCCCAGGGGAGCTCCCCGTGGCCACCTCATCTTCCTCATGCCCAGCGTTTGGCTTTCCTGCCGGCTTCT
CAGAGGCTGAGAGTTTTAATAAGGCCCTACGCCCGTCTTGTCGCCGGAATCAGGCATCGGGAGCAGCTACCAGT
GTCGGCTGCAGGCACTGAATTTTTGCATGGGGGCTGACCCAGGCCTTGAGCACCTCTTGGCCTCAGCAGCCCCCT
CCCCTGCACCAACCCACCCCTCCAGGCTCACTCCGGGCCCCACTGCCCTGCCAACTGACCACAAGGAACCCCTGGG
TTGCAGGTGGCTTCCCTGTCCAGGGAGGCTCCGGCTACCCATTGGGGCTGACCCCTGCCTATACCGGACGCCAG
GAATGTTCTTCTTTGAGTAAAGGCAGCCTCACCTCGGGCAGTCCCTGCAGGTCCCTCACCTCCGGGCTGAGCCT
GGCTCTAGGACCTGAAGAAGCTCTCGAAGGACCCAGCCCTGGTGAGCCAAGGACAACCACACAGAAAGCCAGGATT
GAAGCGGTGCTCAGCCAGGCCCCCTGGGGCCTCCGGACAACTTGGGGGTGAGGGGAAGCAGGGCCTCTTGGGATT
TACTCTGTGGCTCTCAGGGCCAATAAAGCCATGTGATGATG

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FIGURE 5718

MQQQPLPGFGAPTTEPTKPPYSYIALIAMAIQSSPGQRATLSGIYRYIMGRFAFYRHNRPGWQNSIRHNLSLNEC
FVKVPRDDRKPGKGSYWTLDPDCHDMFEHGSFLRRRRRFTRQTGAEGTRGPAKARRGPLRATSQDPGVNATTGR
QCSFPPELPDPKGLSFGGLVGAMPASMCPTTIDGRPRPPMEPKEISTPKPACPGELPVATSSSSCPAFGFPAGFS
EAESFNKAPTPLVLSPESGIGSSYQCRLQALNFCMGADPGLEHLLASAAPSPAPPTPPGSLRAPLPLPTDHKEPWV
AGGFPVQGGSGYPLGLTPCLYRTPGMFFFE

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FIGURE 5719

GGCACGAGGATCCCGGGGTCGCGCGAGAGCCGCAAGCGGAGTTGGTGGGCGCTATGCTATCACCCGAGGCAGAGC
GAGTGCTGCGGTACCTTGTAGAAAGTGGAGGAGCTCGCCGAGGAGGTGCTGGCGGACAAGCGGCAGATTGTGGACC
TGGACACTAAAAGGAATCAGAATCGAGAGGGCCTGAGGGCCCTGCAGAAGGATCTCAGCCTCTCTGAAGATGTGA
TGGTTTGCTTCGGGAACATGTTTATCAAGATGCCTCACCCCTGAGACAAAGGAAATGATTGAAAAAGATCAAGATC
ATCTGGATAAAAGAAATAGAAAAACTGCGGAAGCAACTTAAAGTGAAGGTCAACCGCCTTTTTGAGGCCCAAGGCA
AACCGGAGCTGAAGGGTTTTAACTTGAACCCCTCAACCAGGATGAGCTTAAAGCTCTCAAGGTCATCTTGAAAG
GATGAGACTCAAGAACCAAGATGGGGGACCAGCAACCCCCCAGGGTCATGGAGGACCCAGGACCCCTCCAACCTTG
ACACCTGTAAGGACAGGATCTGCCCTGTAAGGGGCCAGCCGTCAGGAATCTGGCCATGAAAACCTCTTTGTAGTG
CTTGGCTACTCTGTGATGGCAGGAGGGAACCTTCAGCCTGTCTGGCTGCTGGACCTGGACACCAGGGCTCGGTGG
ACACAAGATCTATTGACGGGCCTTGGTAGCCACCAGTGGGTGTGTGGGGCAGTGGCTGTGGGGGTGTAAGAATGA
CTGCAACAGGCACTTCCCAACAATGGCCTGCTGTTTACATGGACCCTGAGCAAGGAAGGAGGGAGGGAGGGGCAG
AGTGGAGTGTCAATTCCAGCATTCTCTCAGAAGGGAGAGAGGTTTTCAGGCTGGTGCCATGCGATTGGAATAAAG
CAGGAGGCTCATGGGTGGTTGCTGAATGAAGAACAGAATCTTGGTGCTTTGTGGCTCACCCAGCCATCTGTGGG
GCAGGCACACACACCTCCCGCCAGCTCCAATTTTGACCTTTTCCCTGCTTGATTCCAAGAGTAGGTGCTGCCTA
GCAGCCCTTCGTGGCCACTCTTTACTCAGGAGGGCCTTGAGAGTCTGACACCAGGCCTGGGTGAGTGGATGCGC
CTCTTACCATATGACACGTGTCAAGATGCCCTTCCGCCCCCTCTGAAAGTGGGGCCCCGCCAGCACTGCTCGTTA
CTGTCTGCCTTCAGTGGTCTGAGGTCCCAGTATGAACTGCCGTGAAGTCAAACTCTTATGTGTTTATTAAGGGC
TCAATAAATGTTAGCTGAATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5720

MLSPEAERVLRYLVEVEELAEVVLADKRQIVDLDTKRQNREGLRALQKDLSEDMVCFGNMFIKMPHPETKE
MIEKDQDHLDEIEKLRLKQLKVKNRLFEAQGKPELKGFNLPNQLDELKALKVILKG

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FIGURE 5721A

CCAAGATGGCGACGGCGATGGTGAGTGAAGGAGACTCCGGGAGCGGGAGCTGGAGCGGGGCCCTCCGGGGTATCC
CAGGATCTTCCAGCACCCCATGCCTGGCCCTGAGCCACCTCCGGGACCCCTGACTCAGGCCTGAGGGCTACCTCT
GACTGGGCTTGTCTTCCCCGAAATCCACCTCCCTGGCCCTGCCCTGCACTCAGGCTTGTGAAGGCCCCGAGTTT
TGGGGGAGGCGCCGTTTCGGAGGAAGACCTCGGCTGCTGCCTTCGCCGGTTCCTATTCTACTTTTGGTCTCCGCC
CACTGATTGGTTGCCGTGGTCTTTACTGCTTTTCTCCCTGATGTGTGAACAAGCGCCTTCTATGTGCCTGGGGT
CGCGCCTATCAACTTCCACCAGAAGCATCCCGTAGAAATCAAGGCTGTGAAGCTCACCAGCTCTCGAACCAGCT
ACCTTATGAATACTATTCACTGCCCTTCTGCCAGCCAGCAAGATAACCTACAAGGCAGAGAATCTGGGAGAGGT
GCTGAGAGGGGACCGGATTGTCAACACCCCTTTCCAGGTTCTCATGAACAGCGAGAAGAAGTGTGAAGTTCTGTG
CAGCCAGTCCAACAAGCCAGTGACCCCTGACAGTGGAGCAGAGCCGACTCGTGGCCGAGCGGATCACAGAAGACTA
CTACGTCCACCTCATTGCTGACAACCTGCCTGTGGCCACCCGGCTGGAGCTCTACTCCAACCGAGACAGCGATGA
CAAGAAGAAGGAAAAAGATGTGCAGTTTGAACACGGCTACCGGCTCGGCTTCACAGATGTCAACAAGATCTACCT
GCACAACCACCTCTCATTATCCTTTACTATCATCGGGAGGACATGGAAGAGGACCAGGAGCACACGTACCGTGT
CGTCCGCTTCGAGGTGATTCCCCAGAGCATCAGGCTGGAGGACCTCAAAGCAGATGAGAAGAGTTCTGTCACTCT
GCCTGAGGGTACCAACTCCTCGCCCCAAGAAATTGACCCACCAAGGAGAATCAGCTGTACTTCACCTACTCTGT
CCACTGGGAGGAAAGTGATATCAAATGGGCCTCTCGCTGGGACACTTACCTGACCATGAGTGACGTCCAGATCCA
CTGGTTTTCTATCATTAACCTCCGTTGTTGTGGTCTTCTTCTGTGTCAGGTATCCTGAGCATGATTATCATTCCGGAC
CCTCCGGAAGGACATTGCCAACTACAACAAGGAGGATGACATTGAAGACACCATGGAGGAGTCTGGGTGGAGTT
GGTGACGGCGACGTCTTCAGGCCCCCAGTACCCCATGATCCTCAGCTCCCTGCTGGGCTCAGGCATTACAGCT
GTTCTGTATGATCCTCATCGTCATCTTTGTAGCCATGCTTGGGATGCTGTGCCCCCAGCCGGGGAGCTCTCAT
GACCACAGCCTGCTTCTCTTCATGTTTCATGGGGGTGTTTGGCGGATTTTCTGCTGGCCGTCTGTACCGCACTTT
AAAAGGCCATCGGTGGAAGAAAGGAGCCTTCTGTACGGCAACTCTGTACCCTGGTGTGGTTTTTGGCATCTGCTT
CGTATTGAATTGCTTCATTTGGGGAAAGCACTCATCAGGAGCGGTGCCCTTTCCACCATGGTGGCTCTGCTGTG
CATGTGGTTCGGGATCTCCCTGCCCTCGTCTACTTGGGCTACTACTTCGGCTTCCGAAAGCAGCCATATGACAA
CCCTGTGCGCAACCAACGATTCCCCGGCAGATCCCCGAGCAGCGGTGGTACATGAACCGATTTGTGGGCATCCT
CATGGCTGGGATCTTTGCCCTTCGGCGCCATGTTTCATCGAGCTCTTCTTCATCTTCAGTGCTATCTGGGAGAATCA
GTTCTATTACCTCTTTGGCTTCTGTTCCTTGTCTTTCATCATCTGGTGGTATCCTGTTACAAATCAGCATCGT
CATGGTGTACTTCCAGCTGTGTGAGAGGATTACCGCTGGTGGTGGAGAAATTTCTAGTCTCCGGGGGCTCTGC
ATTCTACGTCTCTGGTTTATGCCATCTTTTTATTTCTGTTAACAAGCTGGACATCGTGGAGTTTCATCCCTCTCTCT
CTACTTTGGCTACACGGCCCTCATGGTCTTGTCTTCTGGCTGCTAACGGGTACCATCGGCTTCTATGCAGCCTA
CATGTTTGTTCGCAAGATCTATGCTGCTGTGAAGATAGACTGATTGGAGTGGACCACGGCCAAGCCTGCTCCGTC
CTCGGACAGGAAGCCACCCTGCGTGGGGGACTGCAGGCACGCAAAATAAAATAACTCTGCTCGTTTGAAGTGA
ACTCTGGCACAGTGTTCTGGATCCTGGGGCTGCGTGGGGGGCGGGAGGGCCTGTAGATAATCTTGGCTTTTC
GTCATCTTATTCCAGTTCTGTGGGGGATGAGTTTTTTTTGTGGGTGCTTTTTCTTCAGTGCTAAGAAAGTTCCCT
CCAACAGGAACCTCTCTGACCTGTTTATTAGGTGATTTCTGGTTTGGATTTTTTTCTCTCTTTGTTTAAACA
AATGGATCCAGGATGGATAAATCCACCGAGATAAGGGTTTTGGTCACTGTCTCCACCTCAGTTCTCAGGGCTGT
TGGCCACCCTATGACTAACTGGAAGAGGACACGCCAGAGCTTCACTGAGGTTTCCGAGCCTCTCCCTGCCCATCC
TCACCACTGAGGCCACGACAAAGCACAGCTCCAGCTCGGACAGCACCCCTCAGTGCCAGCCAGCCTCTGCCAGACC
TCTCTTTCCCTCTTCTCCCCAGCCTCCTCCAGGGCTGCCCAAGGCAGGGTTTCCAGCCAGGCCTCGGGGTCTATCT
TTTACCAGGAGCAAACCAAGTCTTAGTTGCTACAAGAAATCCCTGGAGTACTGGGGGCCAGGTTCCCCAG
ACAGCAGGAATTGCCCTGTTTCAGAGCAGCCGGAGTTTGTGGACCACAAGGAAGAAGAGAAGAGACTTGCAGTG
AACTGTTTTTGTGCCAAGAAACCCTGGACCTGGGGCCAAGTATTTCCCAAGCCAAGCATCCACTTGTCTGTGTCT
GGGAAGGGATGGCCAAGGCCGCTAGGGTCTTACCCCTCAGGATCACTCCCCAGCCCTTCTCAGGAGGTACCG
CTCTCCAAGGTGTGCTAGCAGTGGGCCCTGCCAACTTCAAGGCAGAACAGGGAGGCCAGAGATTACAGATCCCC
TCTGTAAAGTGGCCAGGCATTCTCTCCCTGCCCTCTCTGGCCTCTGGGGTCACTACTCACTTCTTTAGCCAGCCCC
ATCCCCCTCCACCCACACCTGAGTTCTTGCCTCCTCTTTTGGGGACACCCAAAACACTGCTTGTGAGAAGGAAG
ATGGAAGGTAAGTTCTGTCTCTTTCCCCAATCCCCAGGAATGGACAAGAAGCCAACCTAGAAAGAAGGGTCTC
ACGTGGCTGGCCTGGCTCCTCCGTAGACCCCTGTTCTTTTCAACCTCTGCCACCCGTCATGTCTACAAACA
TTTGCTCTTAAGTTACAAGAGACCACATCCACCCAGGGATTAGGGTTCAAGTAGCAGCTGCTAACCTTGCACCA

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FIGURE 5721B

GCCCTTGTGGGACTCCCAACACAAGACAAAGCTCAGGATGCTGGTGATGCTAGGAAGATGTCCCTCCCCCTCACTG
CCCCACATTCTCCCAGTGGCTCTACCAGCCTCACCCATCAAACCAGTGAATTTCTCAATCTTGCCTCACAGTGAC
TGCAGCGCCAAGCGGCATCCACCAAGCATCAAGTTGGAGAAAAGGGAACCCAAGCAGTAGAGAGCGATATTGGAG
TCTTTTGTTCAATCAAATCTTGGATTTTTTTTTTTCCCTAAGAGATTCTCTTTTAGGGGGAATGGGAAACGGAC
ACCTCATAAAGGGTTCAAAGATCATCAATTTTTCTGACTTTTAAATCATTATCATTATTATTTTAATTAAAAA
AATGCCTGTATGCCTTTTTTTGGTCGGATTGTAAATAAATATACCATTGTCCT

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FIGURE 5722

MCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITTYKAENLGEVLRGDRIVNTPFQV
LMNSEKKCEVLCSSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGY
RLGFTDVNKIYLHNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDP
TKENQLYFTYSVHWEEESDIKWASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMIIIRTLRKDIANYNKEDD
IEDTMEESGWKL VHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVF
GGFSAGRLYRTLKGHRWKKGAFTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLG
YYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFVGIIMAGILPFGAMFIELFFIFSAIWENQFYLFGLFLVFI
ILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLFSW
LLTGITIGFYAAYMFVRKIYAAVKID

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FIGURE 5723A

ATGCCCCGACCGCCGCCACTACCGGGGCTGAGGGGGCTGGCGGAGCCCGAGCGCGGCCCGGCCGCAGCGTGG
GGCCCCGAGCGCGGTGAAGAGATTGTTTTCTGAAAGCTGCGTTGGAGGCTGTGACAGAGCTGAGAGCCTGTGTGG
AGCGGATGGGGAGGCTTTCTCAATAACATGGCCCTTTGCCATTAGCCTTGCCATGACCACATTTTACCAGCGT
CCCCCCTGGATTCAAGATGCAAAGCAGGAGGAGGAAGTGGGCTGGAACTAGTTCACAGCCTCGGGGCCGGA
GGCGGAGAGTCAAGTGAAGTGCCAATGTGAAATTCGGGAACACCTTTCTCAAATGGGAGAAAGCTGAGGCCTCA
CAGCCTCCCGCAACCAGAGCAGAGACCATATAGCTGCCCTCAGCTGCACTGTGGCAAGGCTTTTGCTTCAAATA
CAAGCTGTATAGGCACATGGCCACCCACTCAGCCAGAAACCCACCAGTGTATGTACTGTGATAAGATGTTTCA
CCGCAAGGACCATCTGCGGAACCATCTGCAGACCCATGATCCTAACAAAGAGGCCCTCCACTGCTCTGAGTGCGG
TAAGAATTACAATACGAAGCTGGGCTACCGGCGCCACCTGGCCATGCATGCTGCCAGCAGCGGTGACCTCAGCTG
CAAGGTGTGCTGCGAGACCTTTGAGAGTACCCAGGCCCTGTAGAGCACCTGAAGGCCCACTCAGCCGGGTAGC
AGGCGGTGCCAAGGAGAAGAAGCACCCCTGTGACCACTGCGACCGGCGGTTCTATACTCGTAAGGATGTACGGCG
GCACCTAGTGGTGACACAGGCCGTAAGGACTTCCTGTGCCAGTACTGTGCCCAGCGGTTTGCCGTAAGGACCA
CCTGACGCGTCAATGTCAAGAAGAGCCACTCGCAGGAGCTGCTCAAGATCAAGACAGAGCCCGTGACATGTTAGG
CCTACTCAGCTGCGAGCTCCACAGTCAGTGTGAAGGAAGAGCTGAGCCCTGTGCTGTGATGGCTCTCGGGACGT
AATGGGGACCAAGGCCTTCCCTGGCATGTTGCCCATGGGCATGTATGGTGCCACATCCCTACCATGCCCAGCAC
GGGCGTGCCACACTCCCTGGTGACAACACGCTGCCCATGGGTATGAGCTACCCCTTGGAATCCTCACCTATCTC
TTCCCCAGCTCAGCTCCCTCCAAAATACCAGCTTGGATCTACCTCATACTTGCCCCGACAAATTGCCCAAAGTGGA
GGTGGATAGTTTTCTGGCGGAGCTTCTGGAAGCCTGTCTCTCTCATCCGCTGAACCCAGCCCGCCTCACCTCA
GCCGGCGGAGCTGCGGCCCTCCTAGATGAAGCACTGCTTGCCAAGAGCCCGCCAACCTCTCTGAGGCCCTCTG
CGCTGCTAATGTGGACTTCTCCACCTACTGGGCTTCTTCCACTCAACCTGCCCGGTGTAACCCACCTGGGGC
CACAGGAGGCTGGTCATGGGCTACTCCCAGGCTGAGGCACAGCCCTGCTTACCCTTTGCAAGCTCAGCCTCA
AGATTCCCCAGGAGCTGGGGGACCACTGAACTTTGGGCTCTGCACTCCTTGCTCCTGTCTTCAGTCTGGCCT
GAGTAGCACCACCTGCCTCGTTTCCATCAAGCATTCCAGTACCCCCACAGAGGCCCTCAGCTCAGTTTTTGGC
TCTGTTATGGAGCCTTAGTACCCACCCGCTGTGTGTCCTCATGAAGGCAGCTGAGCTTTCAGAGCTGGGTTCAA
AAAAAAAAAATCCAGTGTCTGTATACAGGAGCACTTGGTTTGGGGGTTGAGGCTCTAGGATCGATTCCAGAAGGA
GCCTTGAGCCCCAACCCCGTGAAGAATCTCATACCGTAGGACTTCAGGTATTATTTACTTTTATTTTTTGGACC
TGAATCGGGAGCCACACTTGGCCCTCTTCTCTCCAAAGCGCCAGAACCTCCTTCTCTTTGGAGAATGGGGAGGC
CTCTTGAGACACAGAGGGTTTACCTTGGATGACCTCTAGAGAAATTGCCCAAGAAGCCACCTTCTGGTCCCA
ACCTGCAGACCCACAGCAGTCAGTTGGTCAGGCCCTGCTGTAGAAGGTCAGTTGGCTCCATTGCCTGCTTCCAA
CCAATGGGAGGAGAGAAGGCCTTTATTTCTCGCCACCCATTCTCTCTGACCAGCCTCCGTTTTCAGTCAG
TGTTGTCCAGCAACGGTACCGTTTACACAGTCACCTCAGACACACCATTTACCTCCCTTGCCAAGCTGTTAGCC
TTAGAGTGATTGCAGTGAACACTGTTTACACACCGTGAATCCATTCCCATCAGTCCATTCCAGTTGGCACCAGCC
TGAACCAATTTGGTACCTGGTGTTAACTGGAGTCTGTTTACAAGGTGGAGTCGGGGCTGTGACTTCTCTTCAT
TTGAGGTCACATTTTTTCCCCGTTGGGAAATAAACTGACTTTGGACTGCTTCAGTCTCTGCCATCTTCCATGACT
GCATTTGTTCTGCTGCTCGCTCGGCGGTATCCACAGAAGACAGGCAAGAGGATTGGAGCAGTTTTCTCACAGGTCT
GCAATTCGTTTTTTCTCAAGTACATTATGACCCCTCATCCTTCTCTGAACTGGAGAGGGGAAGAAATGAAAG
GCATGCCACGTCCTGACCTCCCCATCCCTAGTCCCCACCTTGAACATCATGAGCTGTTGTTATTAGTCTTGG
AAGCAGAGTCTGGGTTGGTGTGGATAGCAAAGGAGGAAGTCTGAGCCCTCATTGGTCTTCTCCACCTGTCCC
TTTTCCGGGAAGTTGTGGAATTGTTGGAAGAAGAGTTTGCAAGGTTAGGAATGGGTAGATAGCTAAGTCTTAA
TCTATGGGTACATTGTTGTGTCCCAAACCAAAATTTTCTTATCCACAATGTCCCTTCTGTCTCTTCCACTTTAC
AGTGGACTCGGCCACTGTGCATAGGCTTCTCTGCTCTCCATCAAATCACTTCCACTTCTCTGTGCCCCACCCCC
GCCTCCAGTTTTTCCGCTAGTATCCGGCAAGGTTTCTTGCAACAAATGATTAGTCTTTTCTTCTGACTCGTGGGG
CTCCCTGCTGCAGAGAGCACAGCCCTTGCTGGAGCCAGGAACCCCATCCTTGCTTCACTCAGTTCTTTCATGG
GCTTCACTCTTCCACTCACGGAAGGGAGGTAGCTCAGGGACCTCCACTGTGGGACCCCTTGAGACGCTTCCACTC
TGATTAGAAACACACTTCTACCTCTTTACTGTTAACTCTTAACAGATGCAGTCAGCAGTTTCTGGGCACTTCTC
TCAGTAGGTGCTCATGCTGACTTCTCCAGTAGGTTTTCAGGACAACTACCAAGGAATTGCCTCAGCCTCCTAC
CAGTCTCCTCACCCACCTTCTGTCTAGGTTCACTTGGTTTGTCTATCAGGAAGTGGAGGTCAGGACTCAGC
TTTCTGCTTCAGCCTAAGCCAGTACTCCTGTTTGGAGTAAAGCCTTAAATTTAGCTCCCTAGCTCTTGATTA

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FIGURE 5723B

GAAGCAATTTGGAGTAAGTGTGTTTTGATTTAGGCAGGGTAGCTTGGGATACCTTTTTAAAAACACCAGATATTA
AAATGTCTGGCAAGGTTAGAATCAGACTAGATGATTTGCTTCTAAAAATTAGTTTCAGTGAGTCCCAGGGACTAA
TTAAGGTTTATTTTAAAAAGTGTCTACCTTGGGTACGCAGCCACCTCCTGCATGCTGTGCATGTTATTGGGACTTG
TATTATAGGTGATGGTATGTGAGAAATCCAGTTGGGACTCGCTGTTGCCATCCTCTTTGTTGTATCTGGTTTTTCAT
CACTAGACTCAGCAACCCCTTCTCACCTTAACTGCCACCTTCCCTACACTCTCAGTTTACAGAGGCCACTGGGCCT
CTGGCTGCAGAATACAAAGTCCCAGGCTGTTAGAGGAGTCTTTTCTCTCTGCCTGCCCTTTTCTGTCCCTCCCT
CGAATTCTCTCTCCCCGTAAGTGATGCTGGAAAAGTCATAGGACTGGCAAAGCAACTGTTTAAACCCTTTGTAAC
CGGGGCCCTTGCCCCACCTCCTGTCTTTTTCTCCTTGCCCTTCCCCACTCCTGTGTCTCTCCATCTATCCTGTCTTT
CCTTTCTCTCTCAGTGCTCTCAGCACCCACAAGGAATTTTCTATCACTGTGAACCTTTGCTGGTACAGAGGAA
TAATATCTGCCTTTCACCTTTTTTTTTTTTGGACCATAGCTAGCCAGTCATTTCTTAAACCTCCCTTCTAAAACTC
GGGGGGTCGGGGGGGAAAAGAAAAAAGCCTTAGTGGCCTGGTTGTTCAAAGGATAAGAATAGCTTTATCCTGCA
CTCAGTACCCGAACCTCACTTCACTATGCTTACTGAGGCCATGAGAACCTGAGGGGCATCTGCCAGGACAGGAGC
CATGGCATATGACAAAGACCAATGAGGGACCAGGAAAAAAGTGATGTCCCCTTTCCCTGCCACCTCCAGCCTCT
GCCAGCAATGAGCTGTCCCCCTCCCACCTACACAGTAGCTGGTCAGGGCTGAGTACAGTCTGGGGGTAAAGGGG
ATGACATGCCCAGGTGTCAGCTCAAAGGATCTCTGCATCATCTTGAGGTGGGAGGCAGGGAAAGGAGCGCCAATG
AGGTTCCCTGCAACCCCCGCCCTCCAGCCCACCGCCCAACCTTTTACAAATGGCATTCTTCTTAATTGAAAAATCCG
GGAAGCAGGTGTGATTACTTTTTTGTCTCGTAGATATTGTCTTAAGTTGGAATTCTCCCACTGCCCTAAAACTTTC
CCTAGTAGTCTTTTAAACTCCCCCTCCCTTTTTTGGTAGCTGTTTTCTCCGTCTCTCTCCACCTGCCCTCTTAT
CTAGGAGCTGTTTGTAAGCACGATTTTTTTTAAACAGGTTATATTGTACAGGATCAATATTTTGCTTTTTTAAACAAGG
ATATTTATGTAATAAGAACTTTGCCTTAGGCAGGTGTTGGCCAGAAAAGTCCAGATTCTCTGGGATCCCCACCC
TGGCCTCTCCTGGAACCTCTGAACCTGCTGTGGAAGGAATTGGCCATGACCTTCACCTCTGGAGAGTAGGGTCTAT
GGCGAGGGGAAAAGGGTGTTACCATGATAACCTAGTGCCCTCCATAGAGGGGTTTGGAATAATCCAGTCCGATTT
CTTTGTGTGTCAGCTGACTTCTTAGCTGATTGTTCCCACTTGACCTCTCCACCTTTGGCACTAGAACTCCTGA
GACACCACTTCTCATGCTTCTCCCTCCCTACCAGCGGTCAAGGCTTTGGAGCCACTCTTTTGTAACCTCCAGATTA
TTTAAAGAGAAAAGTACAAGACAGAAATCTTCTAGCACTTTGTAAACACAGTGAATAACCTCTTGAGTATTTTT
GGCTTTATATAAAACAAGGTTTTTAATTGTAAAGTATAAGTGCCATTAGAAAATGCACAGGGCATATCTTTGTGA
AAGTAGATTTTTCAATGTTTTACAGAATTACATTTTCAAAAAAGGTTTTTATAATGAAGTTGTTTATAAAAAC
TTCTGAATGATG

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FIGURE 5724

MTTFFTSVPPWIQDAKQEEVGVWKLVPVRPRGREAESQVKCQCEISGTPFSNGEKL RPHSLPQPEQRPYSCPQLHC
GKAFASKYKLYRHMATHSAQKPHQCMYCDKMFHRKDHLRNHLQTHDPNKEALHCSECGKNYNTKLG YRRHLAMHA
ASSGDL SCKVCLQTFESTQALLEHLKAHSRRVAGGAKEKKHPCDHCDRRFYTRKD VRRHLVVHTGRKDFLCQYCA
QRFGRKDHLTRHVKKSHSQELLKIKTEPVDMLGLLSCSSTVSVKEELSPVLCMASRDVMGTKAFPGMLPMGMYGA
HIPTMPSTGVPHSLVHNTLPMGMSYPLESSPISSPAQLPPKYQLGSTSYLPDKLPKVEVDSFLAELPGSLSLSSA
EPQPASPQPA AAAALLDEALLAKSPANLSEALCAANVDFSHLLGFLPLNLPPCNPPGATGGLVMGYSQAEAQPLL
TTLQAQPQDSPGAGGPLNFGPLHSLPPVFTSGLSSTTLPRFHQAFQ

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FIGURE 5725A

CTTCCCTCCCCGACTGTGCGCCGCGGCTGGCTCGGGTTCCCGGGCCGACATGGGCGCCGCCGCGTGGGCACGGCC
GCTGAGCGTGTCTTTCTGCTGTGCTTCTGCCGCTCCCGGGGATGCCTGCGGGCTCCTGGGACCCGGCCGGTTA
CCTGCTCTACTGCCCCGTGATGGGGCGCTTTGGGAACAGGCCGATCACTTCTTGGGCTCTCTGGCATTITGCAAA
GCTGCTAAACCGTACCTTGGCTGTCCCTCCTTGGATTGAGTACCAGCATCACAAGCCTCCTTTCACCAACCTCCA
TGTGTCTTACCAGAACTTCAAGCTGGAGCCCCCTCCAGGCTTACCATCGGGTCATCAGCTTGGAGGATTTTCAT
GGAGAAGCTGGCACCCACCCACTGGCCCCCTGAGAAGCGGGTGGCATACTGCTTTGAGGTGGCAGCCAGCGAAG
CCCAGATAAGAAGACGTGCCCCATGAAGGAAGGAAACCCCTTTGGCCCATCTGCGGATCAGTTTCATGTGAGTTT
CAACAAGTCGGAGCTTTTTACAGGCATTTCTTTCAGTGCTTCTACAGAGAACAATGGAGCCAGAGATTTTCTCC
AAAGGAACATCCGGTGCTTGCCCTGCCAGGAGCCCCAGCCAGTTCCCGTCTCTAGAGGAACACAGGCCACTACA
GAAGTACATGGTATGGTCAGACGAAATGGTGAAGACGGGAGAGGCCAGATTTCATGCCACCTTGTCCGGCCCTA
TGTGGGCATTTCATCTGCGCATTGGCTCTGACTGGAAGAACGCCCTGTGCCATGCTGAAGGACGGGACTGCAGGCTC
GCACTTCATGGCCTCTCCGAGTGTGTGGGCTACAGCCGAGCACAGCGGCCCCCTCAGCATGACTATGTGCCT
GCCTGACCTGAAGGAGATCCAGAGGGCTGTGAAGCTCTGGGTGAGGTCGCTGGATGCCAGTCGGTCTACGTTGC
TACTGATTCCGAGAGTTATGTGCTGAGCTCCAACAGCTCTTCAAAGGAAGGTGAAGGTGGTGAGCCTGAAGCC
TGAGGTGGCCAGGTCGACCTGTACATCCTCGGCCAAGCCGACCCTTTATTGGCAACTGTGTCTCCTCCTTCAC
TGCTTTGTGAAGCGGGAGCGGGACCTCCAGGGGAGGCCGTCTTCTTTCTTCGGCATGGACAGGCCCCCTAAGCT
GCGGGACGAGTTCTGAATTCTGGCCGGAGCACCAGACCCTCTGATCCTGGAGGGACCAGAGTCTGAGCTGGTCCTT
CCAGCCAGGCCTGGCAGCCAGAGGTGCTCCGGGATTGCAAACTCCTCTTCTCACCTGCCAAAGATGGAGAAGAGT
GCCAGGGACCCCTCAAGGAGGGAGACGCTCCATATCCAGGGCATAGGACTTGCAGTTTCTAGGAGCAGGAGCA
TCTCCCATCGCACGTGCTTTCTGCTCTTCTGGGAATTTCTCACACTGGCAAAGCAGTCCAGCCTCCGTCTTCTGG
TCCACTCTGCTCTGAGCAGCCTGGGATGCTGAACCTTTCAGAGAGATTTTTTATAGAGAGATTTCTATAATTTT
GATACAAGGTGATGACTATCCTAGAACTCTCTGTGGTTTTTGAAAATCATTGAATTTCTATTAATGTAGGTACCTA
AAGTGACCTTAACTGAATGTGGATGAGGCTGGGGCTGGTGTTGGTCTTTTGGCTGCTTTTCAAGGTGTCCCCAA
TGTGGCCCTCAAGAGCCATCCCCACTGCGCTGGCCAGAGCCATTTGTTGCTCCCTACTTCTAGGCCATTTCTGGGG
CTTGGGGGATGAATGCTGTCTGTGCTGTAAACACTATGCAAATGGAAGTTATCGGTTGTGGTGCTGTGCAGCGC
TCTGTGGGCGACTAAGTGCCACTCACGCAGCATGTTCTGGCAAGGAGCACATACCATCAAGCCACACTATCATG
GTATTGTTCTCACAGTCTTTTGGTGGTTGATGGCCACTGCAAACCTGGCACCATCAGATCTCTTCTGATCTCTTG
CCCCAGTGGGGCCTGGTTGGTAGAATGTTGGCATTGCGTTGATATCCAAAGCCTGTTCTCCAGCCGTCTCCTG
CAGCTGGAGCCTTCAGGCCGATTTCTCACGAGGGAACGTTTGCCAAGGCTCTGACCTCAGAGAAGATGCCAGGG
CCCAGAAGCCATCAGAAATATCAGTGGAGAAGCACCTTTTGACTCTTCCCTTCCAATGTAATCTCTGCCAACACC
ATGAGGCTTAAGGTGCTCTAAGTCATGAGTGTTTTGGTCTCAAATGCTGCAGTTTTAATAATCTGTGACTCCTGA
GAGCCCATGGTTTTTTGACCTTGTGGTTCTAAAATTCCTTGTCTGACCCCTGTAGATCTTTTCTTGGCATGTCA
CCTCCCTTGGCCCTTTGATCCTGGAAAGGTGGCAGAGCCTCCACTGAGCCAGGCCAGAGCTCCTTGCAGTGCCTT
CTTCTTGTTTACCTGTGGGAGGAAACACTTTTTTGTGAGGGGAGCCTGGTTTCAAGCTCAGAGGTACACTG
TATCAAAGATCTCAAACAGCAAAGTCAGCATTGCTGTATAGAGCTGCCACCCAACTCTAAGCAGGAGAACTGT
ACAGAAAGGGCTTTGCTATTTTTCCCTTTTGGGAAACAATGAAGTGTTTTAAGTCTGGGTGGACTGAGAGATG
GTTTGCCTGTCCAGACTTGCTCTCAAGCCTCATCCAGAGAAGGAGCTGCAGATGAGGGAGCCCGTACACTCCCTG
CCACCACTAGGTGTGAAGCCTGTAGCTGGCTGGCTGATTTTCAATTTTGAATTCATTTGCCATCCACAGCCTTACA
CTAGGCACACACTTTAGAGTCTGGGGCTCCAGTGGGGCCCGCTAATTTTTTTTCCCCCAAGACAGGGCCTTGC
TCTGTCTCCAGGCTGGAGTGCAGTGGCATGATCATGGCTTACTGCAGCCTTGATCTCCAGGCTCAAGCGATCC
TTCTGCCTCAGCCTCTCTGGTAGCTGAGACTGCATGCCAGCTCCAAATCACCTTGATTTCATATCAGCAGTAATA
ATCACTTGTGTTCTGAAAGAAAGGGCACCAGAAGTTCTAGCAAATTCAGTTGTGTTCTGTGAGCTAGCACTTTT
TCCTCTGACCCAATTTTCTTACCTATAAAATGGTGATAAAAACCGACAGGTTGTTCAAAGGCCAGATCAGCTAA
AGCATGTATATAAGAGCACGTTGTAACTTGAAGAGACAAAGGCACAAATGTGGCTGTTGATTAATTTGACTGC
TTCTCGTTGCTCGTCACCTCCATGCCAGGCACTGTGCTTGCTAATTGCTTTATGGGGGCATTCTCTTATTTATTC
CCCAGCCCTGGGAAATAGGAGCTGTCAATTATCTTCTCTTCTGCACAAGGAAAAATTAATGCCCTGAGAATTGT
CATAATTTTCCCAAGGCTGCCAGCTGGTGGTGTTAAGCCAGAATTTGACCTCCAGAGCCAGTTTCCATTAGCT
GCCATGCTCTGCTGCCTCTAATTCACAGAATGCACTTTCTACCTGTGTGCCATGGAGACCTCCTATGGAAAAAT

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FIGURE 5725B

GATCAGCCACCTTACCTTCTACTGGGTACCTGCTGTGAGTCTGCCTATGCCAGAAGGATTAAGGAGGGGAGGTTA
CCCAAGAAACAAAGCCTACATGCCGCTTACAGCCCCCGTTGGATGGTTGCTCAGTACAACAGTCTTGCAATTCAGC
AGGTGTTTGTTCATCACCTACTATGTGTCAGGCTCTATGCTAGGTACTGGGGATACAGGAGAGAATCAAGCGTAA
AGTCTTTGTTCCTCAAGGAATTTGCATTCTAGAAAAGTAGAAGATGTAATAAATGTACTGTGGGACATGTTAATAAG
TGCTATAAAAGAAATATAAAGGGTTTGGGAGCAAAAAGAGGGAGTGGATCTATTTTAGATGAGCCCAGGTAAGACC
TCTCTGAAGAGCTGTCTATGAAGGAGGGAGGGAGCACATTCTTGGCAGAGAAAACAGCACGTGCAAAGGCCCCGAG
ACTGGAGTGTGTTCTGAAGAGCAGCCAGGAGGCCAGCATGGCTGGAGAGGCAGGCATAGGCAGGGAACCGAGCA
GCAGGTCAGAGCAGGCGAGCTGACATTCTGCAGCCTGGACGGCCATGGCAGGAAGCTTTTAGTTGGAGAGATACA
GGAAGCCTCCTAGGGTTCTGAGCAGAAGAGGGGCATGAGCTGATTACATTCTGAAGGACCTCTCTAGCTGGCCA
GTGCTGAGGAGGTTGGAGAGAGAAAGGGTGAAAGCAGAGAGACCAGTGCAGGGCTGTTAACAGGGTTGCAGGCCGA
GAGACTGGGGTGCTGGGCTCCCCTAGACTAGGACTCCAGTGCCCTCCTCTCCCAAGAGACAAAGGCCATTGCATT
GAAGGAGGTGGGAAATGATTAGATTCTGAACATATGTAATTATTTTTCAGTCTTTTCAAAGATACAAATATTTA
CATAGTTTAAATCATGTAATATATACAATTTAATGTCTAGTGTTTTACTTAATAGTGTATCATGTTTTCCCTGT
TGGTATGTAGCCTGGATAAATGCTCTTAATTATAAAAAATTTCTGTGAGGAGTGTCCATAGTTTATTGTTTTCC
TATTATGAGAATTTAGGCCAAGTGTGGTGGCTCATGCCTGTAATCCCAGCACTTTGCGAGGCCGAGGTGGGCAGA
TCACTTGAGGTGAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAATTATCTCTACTAAAAATACAAAAAATAA
TAATAATAGCCAGGCCGTGGTGGCACATGCCTGTATTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATGGCTTGA
ACCTGGGAGGTGGAGGTTGCAGTGAGCCGAGATGGTGCCACTGCATTCCAGCCTGGGCAACAGAGCGAGACTCCA
TCTCAAAAAAAGGAGACTTTCATGTGCCCCCAATTTTTCTACTATTGTTATTGAAAAAATATTTTATTGTAAAG
AGTTTTTCTTTATTTAAATGTTTATTATAAAGTTGTTGGACGGGAAGCAAAAAAAGTTGTTTAAGATAA
ATTCCCAGAAGTGAATTTGTTAGATCAAACACTTAAACCTTTTTGTTATGGAAGAATTCAAATATAAATAAAAAA
TTGTGAGTAATAAATGAACCTCACAGTTTCAACAATGACCCAC

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FIGURE 5726

MGAAAWARPLSVSFLLLLPLPGMPAGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFAKLLNRTLAVPPWIEYQH
HKPPFTNLHVSQKYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAAQRSPDKKTCPMKEGNPFGP
FWDQFHVSFNKSELF TGISFSASYREQWSQRFSPKEHPVLALPGAPAQFPVLEEHRPLQKYMVWSDVMVKTGEAQ
IHAHLVRPYVGIHLRIGSDWKNACAMLDGTAGSHFMASPCVGYSRSTAAPLTMTMCLPDLKEIQRAVKLWVRS
LDAQSVYVATDSESYVPELQQLFKGKVKVVS LKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSF
FGMDRPPKLRDEF

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FIGURE 5727A

ACCCACTCCCGCTGCCCCGTCCGGCCCCGCGCCGCTTCCTCGCAGCAGCTGCTCCCGGCTCCGCGGCCGAGCCCCG
CGTGGACGCTCCGAGCGCCCCCGACGGACGGGACCGGCTCCCTGGCGGTGCGGCGAGCGGGCGGCAACGCTGCC
CGGCCGGCAGCGCTGGGGTTAAGTGGCCCCAAGTAAACCTAGCTCGGCGATCGGCGCCGGAGATTCGCGAGCCCAG
CGCCCTGCACGGCCGCCAGCCGGCCTCCCGCCAGCCAGCCCCGACCCGCGGCTCCGCCGCCAGCCGCGCCCCAG
CCAGCCCTGCGGCAGGAAAGCATGAAGGGAGACACCAGGCATCTCAATGGAGAGGAGGACGCCGGCGGGAGGGAA
GACTCGATCCTCGTCAACGGGGCCTGCAGCGACCAGTCTCCGACTCGCCCCCAATCCTGGAGGCTATCCGCACC
CCGGAGATCAGAGGCCGAAGATCAAGCTCGCGACTCTCCAAGAGGGAGGTGTCCAGTCTGCTAAGCTACACACAG
GACTTGACAGCGATGGCGACGGGGAAGATGGGGATGGCTCTGACACCCAGTCATGCCAAAGCTCTTCCGGGAA
ACCAGGACTCGTTTCAGAAAGCCCAGCTGTCCGAACCTCGAAATAACAACAGTGTCTCCAGCCGGGAGAGGCACAGG
CCTTCCCCACGTTCCACCCGAGGCCGGCAGGGCCGCAACCATGTGGACGAGTCCCCCGTGGAGTTCCTCGGCTACC
AGGTCCCTGAGACGGCGGGCAACAGCATCGGCAGGAACGCCATGGCCGTCCCTCCAGCTCTTACCTTACCATC
GACCTCACAGACGACACAGAGGACACACATGGGACGCCCCAGAGCAGCAGTACCCCTACGCCCCCTAGCCAG
GACAGCCAGCAGGGGGGCATGGAGTCCCCGCAGGTGGAGGCAGACAGTGGAGATGGAGACAGTTCAGAGTATCAG
GATGGGAAGGAGTTTGAATAGGGGACCTCGTGTGGGGAAAGATCAAGGGCTTCTCCTGGTGGCCGCCATGGTG
GTGTCTTGAAGGCCACCTCCAAGCGACAGGCTATGTCTGGCATGCGGTGGGTCCAGTGGTTTGGCGATGGCAAG
TTCTCCGAGGTCTCTGCAGACAACTGGTGGCACTGGGGCTGTTTCAGCCAGCACTTTAATTTGGCCACCTTCAAT
AAGCTCGTCTCCTATCGAAAAGCCATGTACCATGCTCTGGAGAAAGCTAGGGTGCAGCTGGCAAGACCTTCCCC
AGCAGCCCTGGAGACTCATTGGAGGACCAGCTGAAGCCCATGTTGGAGTGGGCCACGGGGGCTTCAAGCCCCT
GGGATCGAGGGCCTCAAACCCAACAACACGCAACCAAGTGGTTAATAAGTCAAGGTGCGTCTGTCAGGCAGTAGG
AAATTAGAATCAAGGAAATACGAGAACAAGACTCGAAGACGCACAGCTGACGACTCAGCCACCTCTGACTACTGC
CCCGCACCCAAGCGCCTCAAGACAAATTGCTATAACAACGGCAAAGACCGAGGGGATGAAGATCAGAGCCGAGAA
CAAATGGCTTCAGATGTTGCCAACAACAAGAGCAGCCTGGAAGATGGCTGTTTGTCTGTGGCAGGAAAAACCC
GTGTCTTCCACCTCTCTTTGAGGGGGGGCTCTGTGACATGCCGGGATCGCTTCTTGGAGTGTTTTACATG
TATGATGACGATGGCTATCAGTCTTACTGCACTGTGTGCTGCGAGGGCCGAGAGCTGCTGCTTTCAGCAACACG
AGCTGCTGCGGTGTTTCTGTGTGGAGTGCCTGGAGGTGCTGGTGGGCACAGGCACAGCGCCGAGGCCAAGCTT
CAGGAGCCCTGGAGCTGTTACATGTGTCTCCCGCAGCGCTGTCTATGGCGTCTGCGGCGCCGGAAGGACTGGAAC
GTGCGCTGCAGGCCTTCTTACCAGTGACACGGGGCTTGAATATGAAGCCCCAAGCTGTACCCTGCCATTCCC
GCAGCCGAAGGCGGCCCCATTCGAGTCTGTCTATTGTTTATGGCATCGCGACAGGCTACCTAGTCTCAAAGAG
TTGGGCATAAAGGTAGGAAAGTACGTGCTTCTGAAGTGTGTGAGGAGTCCATTGCTGTTGGAACCGTGAAGCAC
GAGGGGAATATCAAATACGTGAACGACGTGAGGAACATCACAAGAAAAATATTGAAGAATGGGGCCCATTTGAC
TTGGTGATTGGCGGAAGCCCATGCAACGATCTCTCAAATGTGAATCCAGCCAGGAAAGGCCTGTATGAGGGTACA
GGCCGGCTCTTCTTGAATTTTACCACCTGCTGAATTACTACGCCCAAGGAGGGTGATGACCGGCCGTTCTTC
TGGATGTTTGAGAATGTTGTAGCCATGAAGGTTGGCGACAAGAGGGACATCTCACGGTTCCTGGAGTGTAATCCA
GTGATGATTGATGCCATCAAAGTTTCTGTGCTCACAGGGCCCCGATACTTCTGGGGCAACCTACCCGGGATGAAC
AGGCCCCGTGATAGCATCAAAGAATGATAAACTCGAGCTGCAGGACTGCTTGAATACAATAGGATAGCCAAGTTA
AAGAAAGTACAGACAATAACCACCAAGTTCGAACCTCGATCAAACAGGGGAAAAACCACTTTTCCCTGTTGTCTG
AATGGCAAAGAAGATGTTTTGTGGTGCATGAGCTCGAAAGGATCTTTGGCTTCTCTGTGCACTACACAGACGTG
TCCAACATGGGCCGTGGTGCCCGCCAGAAGCTGCTGGGAAGGTCTTGAGCGTGCTGTCTATCCGACACCTCTTC
GCCCCCTCTGAAGGACTACTTTGCATGTGAATAGTTCCAGCCAGGCCCCAAGCCACTGGGGTGTGTGGCAGAGCC
AGGACCCAGGAGGTGTGATTCTGAAGGCATCCCAGGCCCTGCTCTTCTCAGCTGTGTGGGTCTATACCGTGTA
CCTCAGTTCCCTCTTGTCTAGTGGGGGAGAGCCACCTGACTCTTGCAGGGGTAGCCTGAGGTGCCGCTCTTGT
TGCACAAATCAGACCTGGCTGCTTGGAGCAGCCTAACACGGTGTCTATTTTTCTTCTCTCTAAAACCTTTAAACT
TGAAGTAGGTAGCAACGTGGCTTTTTTTTTTCCCTTCTGGGTCTACCACTCAGAGAAACAATGGCTAAGATAC
CAAAACACAGTGCCGACAGCTCTCCAATACTCAGGTTAATGCTGAAAAATCATCCAAGACAGTTATTGCAAGAG
TTTAATTTTTGAAAACCTGGCTACTGCTCTGTGTTTACAGACGTGTGCAGTTGTAGGCATGTAGCTACAGGACATT
TTTAAGGGCCCAGGATCGTTTTTTTCCAGGGCAAGCAGAAGAGAAAATGTTGTATATGTCTTTTACCCGGCACAT
TCCCTTGCCTAAATACAAGGGCTGGAGTCTGCACGGGACCTATTAGAGTATTTTCCACAATGATGATGATTTCA
GCAGGGATGACGTATCATCATTCAGGGCTATTTTTTCCCCACAAACCAAGGGCAGGGGCCACTCTTAGCT

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FIGURE 5727B

AAATCCCTCCCCGTGACTGCAATAGAACCCTCTGGGGAGCTCAGGAAGGGGTGTGCTGAGTTCTATAATATAAGC
TGCCATATATTTTGTAGACAAGTATGGCTCCTCCATATCTCCCTCTTCCCTAGGAGAGGAGTGTGAAGCAAGGAG
CTTAGATAAGACACCCCTCAAACCCATTCCCTCTCCAGGAGACCTACCTCCACAGGCACAGGTCCCCAGATGA
GAAGTCTGCTACCCTCATTTCATCTTTTTACTAAACTCAGAGGCAGTGACAGCAGTCAGGGACAGACATACAT
TTCTCATACCTTCCCCACATCTGAGAGATGACAGGGAAAAC TGCAAAGCTCGGTGCTCCCTTTGGAGATTTTTTA
ATCCTTTTTTATTCCATAAGAAGTCGTTTTTAGGGAGAACGGGAATTCAGACAAGCTGCATTCAGAAATGCTGT
CATAATGGTTTTTAACACCTTTTACTCTTCTTACTGGTGCTATTTTGTAGAATAAGGAACAACGTTGACAAGTTT
TGTGGGGCTTTTTATACACTTTTTAAAATCTCAAACCTCTATTTTTATGTTTAACGTTTTCATTAAATTTTTTT
TGTAAC TGGAGCCACGACGTAACAAATATGGGGAAAAA ACTGTGCCTTGTTTCAACAGTTTTTGCTAATTTTTAG
GCTGAAAGATGACGGATGCCTAGAGTTTACCTTATGTTTAATTAATAATCAGTATTTGTCT

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FIGURE 5728

ACGAGACGAAGACGGAACCGGAGCCGGTTGCGGGCAGTGGACGCGGTTCTGCCGAGAGCCGAAGATGGCAGTGAA
CGTATACTCAACGTCAGTGACCAGTGATAACCTAAGTCGACATGACATGCTGGCCTGGATCAATGAGTCTCTGCA
GTTGAATCTGACAAAAGATCGAACAGTTGTGCTCAGGGGCTGCGTATTGTCAGTTTATGGACATGCTGTTCCCTGG
CTCCATTGCCTTGAAGAAAAGTGAAAATTCCAAGCTAAGCTAGAACACGAGTACATCCAGAACTTCAAAAATACTACA
AGCAGGTTTTAAGAGAATGGGTGTTGACAAAATAATTCTGTGGACAAATTAGTAAAAGGAAAGTTTCAGGACAA
TTTTGAATTCGTTTCAGTGGTTCAAGAAGTTTTTCGATGCAAACTATGATGGAAAAGACTATGACCCTGTGGCTGC
CAGACAAGGTCAAGAAAAGTGCAGTGGCTCCTTCCCTTGTTGCTCCAGCTCTGAATAAACCGAAGAAACCTCTCAC
TTCTAGCAGTGCAGCTCCCCAGAGGCCCATCTCAACACAGAGAACCGCTGCGGCTCCTAAGGCTGGCCCTGGTGT
GGTGCGAAAAGAACCTGGTGTGGGCAACGGAGACGACGAGGCAGCTGAGTTGATGCAGCAGGTCAACGTATTGAA
ACTTACTGTTGAAGACTTGGAGAAAGAGAGGGATTTCTACTTCGGAAGCTACGGAACATTGAATTGATTGCCA
GGAGAACGAGGGGGGAAAACGACCCTGTATTGCAGAGGATTGTAGACATTCTGTATGCCACAGATGAAGGCTTGT
GATACCTGATGAAGGGGGGCCACAGGAGGAGCAAGAAGAGTATTAACAGCCTGGACCAGCAGAGCAACATCGGAA
TTCTTCACTCCAAATCATGTGCTTAACTGTAAAATACTCCCTTTTGTTATCCTTAGAGGACTCAGTGGTTCTTT
TCATAAGCAAAAAGTACCTCTTCTTAAAGTGCACCTTTCAGACGTTTCACTCCTTTTCCAATAAGTTGAGTTAG
GAGCTTTTACCTTGTAGCAGAGCAGTATTAACACCTAGTTGGTTTACCTGGAAAACAGAGAGGCTGACCGTGGGG
CTCACCATGCGGATGCGGGTCACACTGAATGCTGGAGAGATGTTATGTAATATGCTGAGGTGGCGACCTCAGTGG
AGAAATGTAAAGACTGAATTGAATTTTAAAGCTAATGTGAAATCAGAGAATGTTGTAATAAGTAAATGCCTTAAGA
GTATTTAAAATATGCTTCCACATTTCAAAATATAAAATGTAACATGACAAGAGATTTTGCCTTTGACATTGTGTC
TGGAAGGAAGGGCCAGACCTTGGAACCTTTGGAACCTGCTGTCAACAGGTCTTACAGGGCTGCTTGAACCTCA
TAGGCCTAGGCTTTGGTCTAAAAGGAACATTTAAAAAGTTGCCCTGTAAAGTTATTTGGTGTCAATTGACCAATTG
CATCCCAGCTAAAAAGCAAGAGGCATCGTTGCCTGGATAATAGAGGATGTGTTTCAGCCCTGAGATGTTACAGTT
GAAGAGCTTGGTTTTTCATTGAGCATTTCCTCTATTTTTCCAGTTATCCCCGAAATTTCTATGTATTATATTTTTG
GGGAAGTGAGGTGTGCCCAGTTTTTAAATCTAACAACACTACTTTGGGGACTTGCCACATCTCTGGGATTGAA
GGGATTGTATCCCATTTTACTGTCTTTTAGGTTTACATTTACCACGTTTCTCTCTGCTCCCTTGCCCACT
GGGACTCCTCTTTGGCTCCTTGAAGTTTGCTGCTTAGAGTTGGAAGTGCAGCAGGCAGGTGATCATGCTGCAAG
TTCTTTCTGGACCTCTGGCAAAGGGAGTGGTCAGTGAAGGCCATCGTTACCTTGGGATCTGCCAGGCTGGGGTGT
TTTCGGTATCTGCTGTTTACAGCTCTCCACTGTAATCCGAATACTTTGCCAGTGCACATAATCTCTTTGGAGATAA
AATTCATTAGTGTGTTACTAAATGTTAATTTCTTTTGCGGAAAATACAGTACCGTGTCTGAATTAATTATTAAT
ATTTAAAATACTTCATTCTTAACCTCTCCCTCATTGTGCTTTGCCACAGCCTATTCAGTTCCTTTGTTTGGCAGG
ATTCTGCAAAATGTGTCTCACCCTACTGAGATTGTTAGCCCTGATGTATTGATTGATTGTTTCTGGTG
GTAGCTTGTCTGAAATGTGTGTAGAAAGCAAGTATTTTATGATAAAAATGTTGTGTAGTGCATGCTCTGTGTGG
AATTCAGAGGAAAACCCAGATTCAAGTATTAACAATGCCAAAAATGCAAGTAAGTACTAGCCATTGTTCAAATGACA
GTGGTGCTATTTCTCTTTTGTGGCCTTTTAGACTTTTGTGGCCCTAAAATTCATTTTATTGGGAACCCATTTTC
CACCTGGTCTTTCTTGACAGGGTTTTTTTTCTACTTTAAACAGTTTCTAAATAAAATCTGTATTTCAAGAG

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FIGURE 5729

AGAGAGGAGCGGGCCGAGGACTCCAGCGTGCCCAAGGTCTGGCATCCTGCACCTTGCTGCCCTCTGACACCTGGGAA
GATGGCCGGCCCGTGGACCTTCACCCCTTCTCTGTGGTTTGCTGGCAGCCACCTTGATCCAAGCCACCCTCAGTCC
CACTGCAGTTCTCATCCTCGGCCCCAAAAGTCATCAAAGAAAAGCTGACACAGGAGCTGAAGGACCACAACGCCAC
CAGCATCCTGCAGCAGCTGCCGCTGCTCAGTGCCATGCGGGAAAAGCCAGCCGGAGGCATCCCTGTGCTGGGCAG
CCTGGTGAACACCGTCTCTGAAGCACGTCTGCGCTGAAGGTTCATCACAGCTAACATCCTCCAGCTGCAGGTGAA
GCCCTCGGCCAATGACCAGGAGCTGCTAGTCAAGATCCCCCTGGACATGGTGGCTGGATTCAACACGCCCTTGGT
CAAGACCATCGTGGAGTTCCACATGACGACTGAGGCCCAAGCCACCATCCGATGGACACCAGTGCAAGTGGCCC
CACCCGCTTGGTCTCAGTGACTGTGCCACCAGCCATGGGAGCCTGCGCATCCAAGTCTGCATAAGCTCTCCTT
CCTGGTGAACGCCCTTAGCTAAGCAGGTTCATGAACCTCCTAGTGCCATCCCTGCCCAATCTAGTGAAAAACCAGCT
GTGTCCCGTGATCGAGGCTTCCTTCAATGGCATGTATGCAGACCTCCTGCAGCTGGTGAAGGTGCCCATTTCCCT
CAGCATTGACCGTCTGGAGTTTGACCTTCTGTATCCTGCCATCAAGGGTGACACCATTACAGCTCTACCTGGGGGC
CAAGTTGTTGGACTCACAGGGAAAGGTGACCAAGTGGTTCAATAACTCTGCAGCTTCCCTGACAATGCCACCCT
GGACAACATCCCGTTCAGCCTCATCGTGAGTCAGGACGTGGTGAAAGCTGCAGTGGCTGCTGTGCTCTCTCCAGA
AGAATTCATGGTCCTGTGGACTCTGTGCTTCTTGAGAGTGCCCATCGGCTGAAGTCAAGCATCGGGCTGATCAA
TGAAAAGGCTGCAGATAAGCTGGGATCTACCCAGATCGTGAAGATCCTAACTCAGGACACTCCCGAGTTTTTTAT
AGACCAAGGCCATGCCAAGGTGGCCCAACTGATCGTGCTGGAAGTGTTTTCCCTCCAGTGAAGCCCTCCGCCCTT
GTTACCCCTGGGCATCGAAGCCAGCTCGGAAGCTCAGTTTTACACCAAAGGTGACCAACTTATACTCAACTTGAA
TAACATCAGCTCTGATCGGATCCAGCTGATGAACTCTGGGATTGGCTGGTTCCAACCTGATGTTCTGAAAAACAT
CATCACTGAGATCATCCACTCCATCCTGCTGCCGAACCAGAATGGCAAATTAAGATCTGGGGTCCCAGTGTCATT
GGTGAAGGCCTTGGGATTCGAGGCAGCTGAGTCTCTCACTGAGCAAGGATGCCCTTGTGCTTACTCCAGCCTCCTT
GTGGAACCCACCTCTCCTGTCTCCCAGTGAAGACTTGGATGGCAGCCATCAGGGAAGGCTGGGTCCCAGCTGGG
AGTATGGGTGTGAGCTCTATAGACCATCCCTCTCTGCAATCAATAAACACTTGCCTGTGAAAAAAAAAAAAAAAA
AAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5730

MAGPWTFLLCGLLAATLIQATLSPTAVLIILGPKVIEKLTQELKDNATSILQQLPLLSAMREKPAGGIPVLGS
LVNTVLKHVIWLKVITANILQLQVKPSANDQELLVKIPLDMVAGFNTPLVKTIVEFHMTTEAQATIRMDTSASGP
TRLVLSDCATSHGSLRIQLLHKLSFLVNALAKQVMNLLVPSLPNLVKNQLCPVIEASFNGMYADLLQLVKVPISL
SIDRLEFDLLYPAIKGD TIQLYLGA KLLDSQGKVTKWFNNSAASLTMP TLDNIPFSLIVSQDVVKA AVAAVLSPE
EFMVLLDSVLPESA HRLKSSIGLINEKAADKLGSTQIVKILTQDTPEFFIDQGHAKVAQLIVLEVFP SSEALRPL
FTLGIEASSEAQFYTKG DQLIILNLNNISSDRIQLMNSGIGWFQPDVLKNIITEIIHSILLPNQNGKLRS GVPVSL
VKALGFEEAAESSLSKDALVLT PASLWKPTSPVSQ

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FIGURE 5731

CCCTGCTGGGGCATCCCCGGCCTGTGATGCTCCCCGTCTCCCCAGAACCGCTGTTGTCCCGGATGGGCAGCCTGC
GGGCTCCCCGTGGACGAGGACCGCCTGTCCCCGTGGTGGCGGCCGACTCGCTCCTGGAGCATGTGCGGGAGGACT
TCTCCGGCCTCCTCCCTGAGGAGTTCATCAGCCTTTCCCCACCCACGAGGCCCTCGACTACCCTTCGGCCTCG
AGGAGGGCGAGGGCATCAGAGACCTCTTCGACTGTGACTTTGGGGACCTCACCCCCCTGGATTTCTGACAGGGCT
TGGAGGGACGAGGGTTTCCAGAGATGCTCACCTTGTCTCTGCAGCCCTGGAGCCCCCTGTCCCTGGCCGTCTCTCC
CAGCCTGTTTGGAAACATTTAATTTATACCCCTCTCCTCTGTCTCCAGAAGCTTCTAGCTCTGGGGTCTGGCTAC
CGCTAGGAGGCTGAGCAAGCCAGGAAGGGAAGGAGTCTGTGTGGTGTGTATGTGCATGCAGCCTACACCCACACG
TGTGTACCGGGGGTGAATGTGTGTGAGCATGTGTGTGTGCATGTACCGGGGAATGAAGGTGAACATACACCTCTG
TGTGTGCACTGCAGACACGCCCCAGTGTGTCCACATGTGTGTGCATGAGTCCATGTGTGCGCGTGGGGGGGCTCT
AACTGCACTTTTCGGCCCTTTTGTCTCTGGGGGTCCCACAAGGCCAGGGCAGTGCCTGCTCCCAGAATCTGGTGCT
CTGACCAGGCCAGGTGGGGAGGCTTTGGCTGGCTGGGCGTGTAGGACGGTGAGAGCACTTCTGTCTTAAAGGTTT
TTTCTGATTGAAGCTTTAATGGAGCGTTATTTATTTATCGAGGCCTCTTTGGTGAGCCTGGGGAATCAGCAAAGG
GGAGGAGGGGTGTGGGGTTGATACCCCAACTCCCTCTACCCCTTGAGCAAGGGCAGGGGTCCCTGAGCTGTTCTTC
TGCCCCATACTGAAGGAACTGAGGCCTGGGTGATTTATTTATTGGGAAAGTGAGGGAGGGAGACAGACTGACTGA
CAGCCATGGGTGGTCAGATGGTGGGGTGGGCCCTCTCCAGGGGGCCAGTTCAGGGCCCCAGCTGCCCCCAGGAT
GGATATGAGATGGGAGAGGTGAGTGGGGGACCTTCACTGATGTGGGCAGGAGGGGTGGTGAAGGCCTCCCCCAGC
CCAGACCCTGTGGTCCCTCCTGCAGTGTCTGAAGCGCCTGCCTCCCCACTGCTCTGCCCCACCCTCCAATCTGCA
CTTTGATTTGCTTCCTAACAGCTCTGTTCCCTCCTGCTTTGGTTTTAATAAATATTTTGATGACGTTTGGGCCGG
GTTTTGGGACTCTGTTGGGAACATTTGGGGCGGGAGAGGCCAAGGTTGCTGGGGAAATGCCCATTTCTCCACTTC
CCTTCTCCCTGTCCGTGCCCGATTTGATTTGAGCCTCATAACTCGAAGAAAGGTCAGCTTCCTCGCTGTTTTGGT
CCTAACTCAAAAGCAGATCCAGTAAAGGTTTTTGTGT

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FIGURE 5732

MALAGAPAGGPCAPALEALLGAGALRLLDSSQIVIIISAAQDASAPPAPTGPAAPAAGPCDPDLLLLFATPQAPRPT
PSAPRPALGRPPVKRRLDLETDHQYLAESSGPARGRGRHPGKGVKSPGEKSRYETSLNLTTRFLELLSHSADGV
VDLNWAAEVLKVQKRRIYDITNVLEGIQLIAKKSKNHIQWLGSHTTVGVGGRLEGLTQDLRQLQESEQQLDHLMN
ICTTQLRLLEDTSQRLAYVTCQDLRSIADPAEQMVMVIKAPPETQLQAVDSSSENFQISLKSQGPIDVFLCPE
ETVGGISPGKTPSQEVTSEENRATDSATIVSPPPSSPPSSLTTDPSQSLLSLEQEPLLSRMGSLRAPVDEDRLS
PLVAADSLLEHVREDFSGLLPEEFISLSPHEALDYHFGLEEGEGIRDLFD CDFGDLTP LDF

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FIGURE 5733

CGCGCGAGCGGGCGCCAGCTCGGGGCAGCGGAACCCAGAGAAGCTGAGGGGGCGGTAGCGGCGGGCGACGGCGACGA
CGACGACTCCCGCGCGTGTGCCCAGCCTCTTCCCGCCGAGCCGCCCTTTTCCTCCCTCCCTTACGTCCCCGAGT
GCGGCAGTACCGCCTCCTTCCCAGCCGCGCGGCTTCCTCCAGACCTCTCGGCGCGGGTGAGCCCTATTCCCAGAG
GCAGGTGGTGCTGACCCTGTAACCCAAAGGAGGAAACAGCTGGCTAAGCTCATCATTGTTACTGGTGGGCACCAT
GTCCTTGAAGCTTCAGGCAAGCAATGTAACCAACAAGAATGACCCCAAGTCCATCAACTCTCGAGTCTTCATTGG
AAACCTCAACACAGCTCTGGTGAAGAAATCAGATGTGGAGACCATCTTCTCTAAGTATGGCCGTGTGGCCGGCTG
TTCTGTGCACAAGGGCTATGCCCTTTGTTTCAGTACTCCAATGAGCGCCATGCCCGGGCAGCTGTGCTGGGAGAGAA
TGGGCGGGTGCTGGCCGGGCAGACCCTGGACATCAACATGGCTGGAGAGCCTAAGCCTGACAGACCCAAGGGGCT
AAAGAGAGCAGCATCTGCCATATACAGTGGCTACATCTTTGACTATGATTACTACCGGGACGACTTCTACGACAG
GCTCTTCGACTACCGGGGCGGTCTGTGCGCCGTGCCAGTGCCAGGGCGGTCCCTGTGAAGCGACCCCGGGTCAC
AGTCCCTTTGGTCCGGCGTGTCAAACTAACGTACCTGTCAAGCTCTTTGCCCGCTCCACAGCTGTCAACCACAG
CTCAGCCAAGATCAAGTTAAAGAGCAGTGAGCTGCAGGCCATCAAGACGGAGCTGACACAGATCAAGTCCAATAT
CGATGCCCTGCTGAGCCGCTTGGAGCAGATCGCTGCGGAGCAAAAGGCCAATCCAGATGGCAAGAAGAAGGGTGA
TGGAGGTGGCGCCGGCGGGCGGGCGGGTGGTGGTGGCAGCGGTGGCGGTGGCAGTGGTGGTGGCGGTGGCGGTGG
CAGCAGCCGGCCACCAGCCCCCAAGAGAACACAACCTTCTGAGGCAGGCCTGCCCCAGGGGGAAGCACGGACCCG
AGACGACGGCGATGAGGAAGGGCTCCTGACACACAGCGAGGAAGAGCTGGAACACAGCCAGGACACAGACGCGGA
TGATGGGGCCTTGCAAGTAAGCAGCCTGACAGGAGCAATGGCCACCAGCAGGTGAAGGGCATCGCTGCCCCAGGCC
TCAAGCCGGGCACCCAACCCTGGATGCCACCCCCCAGCGGTACCAGAGGAAAGCTGGCAGCAGGCGCCTCCTCC
CCCAACGCATCCCAGCCAGTGCCATGTCTCTGCAGGTGGAGTTACTGGCCTACTCCTTCCCCATGAGCCCTCCC
TGTCTGCACTGCCCAGGCCAGAGGGTAGAGCACAGGGGTTTCCCCATACTACCTCCCCCTCCCCAGGACACTCCCA
GGCTTGGGTTTTTTCTATAGGTTTGGCGGGGGGCCACAGGGAGGGGACCTGACAATAAAGAGATTGGATCCCAA
AAAAAAAAAAAAAA

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FIGURE 5734

CGTTGAAGACATTGTCTGGGTGGTGGGAGAGGTATCGGCAGGGGCAGCGCTGCCGCCGGGGCCTGGGGCTGACCCG
TCTGACTTCCCGTCCGTGCCGAGCCCACTCGAGCCGCAGCCATGCTCTGGGGACGAGATGATTTTTGATCCTACTA
TGAGCAAGAAGAAAAAGAAGAAGAAGCCTTTTATGTTAGATGAGGAAGGGGATACCCAAACAGAGGAAACCC
AGCCTTCAGAAACAAAAGAAGTGGAGCCAGAGCCAAGTGAAGGACAAGGATTTGGAAGCTGATGAAGAGGACACTA
GGAAAAAAGATGCTTCTGATGATCTAGATGACTTGAACCTCTTTAATCAAAAGAAAAAGAAGAAAAAACTAAAA
AGATATTTGATATGATGAAGCTGAAGAAGGTGTAAAGGATCTTAAGATTGAAAGTGATGTTCAAGAACCAACTG
AACCAGAGGATGACCTTGACATTATGCTTGGCAATAAAAAGAAGAAAAAGAAGATGTTAAGTTCCCAGATGAGG
ATGAAATACTAGAGAAAAGATGAAGCTCTAGAAGATGAAGACAACAAAAAGATGATGGTATCTCATTCAAGTAATC
AGACAGGCCCTGCTTGGGCAGGCTCAGAAAGAGACTACACATACGAGGAGCTGCTGAATCGAGTGTTCAACATCA
TGAGGGAAAAGAAATCCAGATATGGTTGCTGGGGAGAAAAGGAAATTTGTCATGAAACCTCCACAAGTCGTCCGAG
TAGGAACCAAGAAAACTTCTTTTGTCAACTTTACAGATATCTGTAACTATTACATCGTCAGCCCAAACATCTCC
TTGCATTTTGTGGCTGAATTGGGTACAAGTGGTTCTATAGATGGTAATAACCAACTTGTAATCAAAGGAAGAT
TCCAACAGAAACAGATAGAAAATGTCTTGAGAAGATATATCAAGGAATATGTCACTTGTACACATGCCGATCAC
CGGACACAATCCTGCAGAAGGACATACGACTCTATTTCTACAGTGCGAACTTGTCACTTAGATGTTCTGTGTTG
CCAGTATCAAAACCGGCTTCCAGGCTGTACGGGCAAGCGAGCACAGCTCCGTGCCAAAGCTAACTAAATTTGCTA
ATCACTGATTTTGCAAAGCTTGTGTGGAGATGTGGCTGGACAGGTTTGCCATCAGAGTGGATATACCGTTGTAT
TAAAAACAAGATAAAAAAGCTGCCAAGATTTTTGGCGAGTGGTTGGTCTGAAGTCCTTGCAAGACGCTGATGCTC
AAGCTGTTGACATACTCATTGCCTACTTTAACACCTGTGAGAGAAACGTGATATGGGGTAAGGAGGTGCTTTTTT
AAAATCGTTCATAGACTTCTGTAAAATGCAAGATAAATTAAAGTTATTATAACAGTGATTCTTTCA

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FIGURE 5735

MSGDEMIFDPTMSKKKKKKKKPFMLDEEGDTQTEETQPSETKEVEPEPTEDKDLEADEEDTRKKDASDDLDDLNF
FNQKKKKKKTKKIFDIDEAEEGVKDLKIESDVQEPTPEDDDLIMLGNNKKKKKKNVKFPDEDEILEKDEALEDED
NKKDDGISFSNQTFPAWAGSERDYTYEELLNRVFNIMREKNPDMVAGEKRKFVMKPPQVVRVGTKKTSFVNFTDI
CKLLHRQPKHLLAFLLAELGTSGSIDGNNQLVIKGRFQQQIENVLRRYIKEYVTCHTCRSPDTILQKDIRLYFL
QCETCHSRCSVASIKTGFQAVTGKRAQLRAKAN

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FIGURE 5736

CTGAGGCCCCAGCCCCCTTCGCCCCGTTTCCATCACGAGTGCCGCCAGCATGTCTGACAAACTGCCCTACAAAGTCG
CCGACATCGGCCTGGCTGCCTGGGGACGCAAGGCCCTGGACATTGCTGAGAACGAGATGCCGGGCCTGATGCGTA
TGCGGGAGCGGTACTCGGCCTCCAAGCCACTGAAGGGCGCCCGCATCGCTGGCTGCCTGCACATGACCGTGGAGA
CGGCCGTCTCATTGAGACCTCGTACCCCTGGGTGCTGAGGTGCAGTGGTCCAGCTGCAACATCTTCTCCACCC
AGGACCATGCGGCGGCTGCCATTGCCAAGGCTGGCATTCCGGTGTATGCCTGGAAGGGCGAAACGGACGAGGAGT
ACCTGTGGTGCAATTGAGCAGACCCTGTACTTCAAGGACGGGGCCCTCAACATGATTCTGGACGACGGGGCGACC
TCACCAACCTCATCCACACCAAGTACCCGCAGCTTCTGCCAGGCATCCGAGGCATCTCTGAGGAGACCACGACTG
GGGTCCACAACCTCTACAAGATGATGGCCAATGGGATCCTCAAGGTGCCTGCCATCAATGTCAATGACTCCGTCA
CCAAGAGCAAGTTTGACAACCTCTATGGCTGCCGGGAGTCCCTCATAGATGGCATCAAGCGGGCCACAGATGTGA
TGATTGCCGGCAAGGTAGCGGTGGTAGCAGGCTATGGTGTATGTGGGCAAGGGCTGTGCCAGGCCCTGCGGGGT
TCGGAGCCCCGCGTCATCATCACCGAGATTGACCCCATCAACGCACTGCAGGCTGCCATGGAGGGCTATGAGGTGA
CCACCATGGATGAGGCCTGTCAGGAGGGCAACATCTTTGTACCACCACAGGCTGTATTGACATCATCCTTGGCC
GGCACTTTGAGCAGATGAAGGATGATGCCATTGTGTGTAAACATTGGACACTTTGACGTGGAGATCGATGTCAAGT
GGCTCAACGAGAACGCCGTGGAGAAGGTGAACATCAAGCCGCAGGTGGACCGGTATCGGTTGAAGAATGGGCGCC
GCATCATCCTGCTGGCCGAGGGTCGGCTGGTCAACCTGGGTTGTGCCATGGGCCACCCAGCTTTCGTGATGAGTA
ACTCCTTCACCAACCAGGTGATGGCGCAGATCGAGCTGTGGACCCATCCAGACAAGTACCCCGTTGGGGTTTATT
TCCTGCCCCAAGAAGCTGGATGAGGCAGTGGCTGAAGCCACCTGGGCAAGCTGAATGTGAAGTTGACCAAGCTAA
CTGAGAAGCAAGCCCAGTACCTGGGCATGTCTGTGATGGCCCCCTTCAAGCCGGATCACTACCGCTACTGAGAGC
CAGGTCTGCGTTTACCCCTCCAGCTGCTGTCTTGGCCAGGCCCCACCTCTCCTCCCTAAGAGCTAATGGCACCA
ACTTTGTGACTGGTTTGTGTCAGTGTCCCCATCGACTCTCTGGGGCTGATCACTTAGTTTTTGGCCTCTGCTGCAG
CCGTCATACTGTTCCAAATGTGGCAGCGGGAACAGAGTACCCTCTTCAAGCCCCGGTCATGATGGAGGTCCCAGC
CACAGGGAACCATGAGCTCAGTGGTCTTGGAACAGCTCACTAAGTCAGTCCTTCTTAGCCTGGAAGCCAGTAGT
GGAGTCACAAAGCCCAGTGTGTTTTGCCATCTAGGCCTTACCTGGTCTGTGGACTTATACCTGTGTGCTTGGTTT
ACAGGTCCAGTGGTTCTTCAGCCCATGACAGATGAGAAGGGGCTATATTGAAGGGCAAAGAGGAAGTGTGTTTG
AATTTTCTGAGAGCCTGGCTTAGTGCTGGGCCTTCTCTTAAACCTCATTACAATGAGGTTAGTACTTTTAGTCC
CTGTTTTACAGGGGTTAGAATAGACTGTTAAGGGGCAACTGAGAAAGAACAGAGAAGTGACAGCTAGGGGTTGAG
AGGGGCCAGAAAAACATGAATGCAGGCAGATTTCTGTGAAATCTGCCACCACTTTATAACCAGATGGTTCCTTTCA
CAACCCTGGGTCAAAAAGAGAATAATTTGGCCTATAATGTTAAAAGAAAGCAGGAAGGTGGGTAAATAAAAATCT
TGGTGCTGG

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FIGURE 5737

MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMRERYASASKPLKGARIAGCLHMTVETAVLIETLVTLGAEVQ
WSSCNIFSTQDHAAAAIAKAGIPVYAWKGETDEEYLWCIEQTLYFKDGPLNMILDDGGDLTNLIHTKYPQLLPGI
RGI SEETTTGVHNLYKMMANGILKVPAINVNSVTKSKFDNLYGCRESLIDGIKRATDVMIAQKVAVVAGYGDVG
KGCAQALRGFGARVITEIDPINALQAAMEGYEVTTMDEACQEGNIFVTTTGCIDIILGRHFEQMKDDAIVCNIG
HFDVEIDVKWLNENAVEKVNIKPQVDYRLKNGRRIILLAEGRLVNLGCAMGHPSFVMSNSFTNQVMAQIELWTH
PDKYPVGVHFLPKKLDEAVAEHLGKLNVKLTKLTEKQAQYLGMSCDGPFKPDHYRY

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FIGURE 5738

GGGAGAACCGTTTCGCGGAGGAAAGGCGAACTAGTGTTGGGATGGCCACCAACTGGGGGAGCCTCTTGACAGGATAA
ACAGCAGCTAGAGGAGCTGGCACGGCAGGCCGTGGACCGGGCCCTGGCTGAGGGAGTATTGCTGAGGACCTCACA
GGAGCCCACCTTCTTCGGAGGTGGTGAGCTATGCCCCATTACGCTCTTCCCCTCACTGGTCCCCAGTGCCCTGCT
GGAGCAAGCCTATGCTGTGCAGATGGACTTCAACCTGCTAGTGATGCTGTCAGCCAGAAGCTGCCTTCTTGGGA
GCAAACTCTTTCCAGCACCATCAAACAGGATGACTTTACCGCTCGTCTCTTTGACATCCACAAGCAAGTCTTAA
AGAGGGCATTGCCAGACTGTGTTTCTGGGCCTGAATCGCTCAGACTACATGTTCCAGCGCAGCGCAGATGGCTC
CCCAGCCCTGAAAACAGATCGAAATCAACACCATCTCTGCCAGCTTTGGGGGCCTGGCCTCCCGGACCCAGCTGT
GCACCGACATGTTCTCAGTGCTCTGAGTAAGACCAAGAAGCTGGCAAGATCCTCTCTAATAATCCAGCAAGGG
ACTGGCCCTGGGAATTGCCAAAGCCTGGGAGCTCTACGGCTCACCCAATGCTCTGGTGCTACTGATTGCTCAAGA
GAAGGAAAAGAAACATATTTGACCAGCGTGCCATAGAGAATGAGCTACTGGCCAGGAACATCCATGTGATCCGACG
AACATTTGAAGATATCTCTGAAAAGGGGTCTCTGGACCAAGACCGAAGGCTGTTTGTGGATGGCCAGGAAATTGC
TGTGGTTTACTTCCGGGATGGCTACATGCCTCGTACAGTCTACAGAATTGGGAAGCACGTCTACTGCTGGA
GAGGTCACATGCTGCCAAGTGCCAGACATTGCCACCCAGCTGGCTGGGACTAAGAAGGTGCAGCAGGAGCTAAG
CAGGCCGGGCATGCTGGAGATGTTGCTCCCTGGCCAGCCTGAGGCTGTGGCCCGCCTCCGCGCCACCTTTGCTGG
CCTCTACTCACTGGATGTGGGTGAAGAAGGGGACCAGGCCATCGCCGAGGCCCTTGCTGCCCTAGCCGGTTTGT
GCTAAAGCCCCAGAGAGAGGGGTGGAGGTAAACAACCTATATGGGGAGGAAATGGTACAGGCCCTGAAACAGCTGAA
GGACAGTGAGGAGAGGGCCTCCTACATCCTCATGGAGAAGATCGAACCTGAGCCTTTTGAGAATTGCCTGCTACG
GCCTGGCAGCCCTGCCCCAGTGGTCCAGTGCATTTTACAGCTGGGCATCTTTGGGGTCTATGTCAGGCAGGAAAA
GACACTCGTGATGAACAAGCACGTGGGGCATCTACTTCGAACCAAAGCCATCGAGCATGCAGATGGTGGTGTGGC
AGCGGGAGTGGCAGTCTTGACAACCCATACCCTGTGTGAGGGGCACAACCAGGCCACGGGACCTTCTATCCTCTG
TATTTGTCATTCTCTCCTAGCCCTCCTGAGGGGTATCCTCCTAAAGACCTCCAAAGTTTTTATGGAAGGGTAAA
TACTGGTACCTTCCCCCAGCTTTCCATCTGAGGACCAGAAAAGTTGTGTCTCCCTTAGATGAGATCTAGACGCCC
CCAAATCCTTGAGATGTGGGTATAGCTCAGGGTAAGCTGCTCTGAGGTAAAGGTCCATGAACCTGCCCCACTCC
TGTCAGCCCTCATCAGCCTTTTCAGCAGGTTCCAGTGCCTGACTTGGGATAGGACTGAGTGGTAGGAGGAGGGG
GAGTGGAGGGGCATAGCCTTTCCTAATTCTGCCTTAAATAAAACTGCATTGCTGT

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FIGURE 5739

MATNWGSLLQDKQQLLEELARQAVDRALAEGVLLRTSQEPTSSEVVSYAPFTLFP SLVPSALLEQAYAVQMDFNLL
VDAVSQNAAFLEQTLSSSTIKQDDFTARLFDIHKQVLKEGIAQT VFLGLNRS DYMFOR SADGSPALKQIEINTISA
SFGGLASRTPAVHRHVL SVLSKTKEAGKILSNNPSKGLALGIAKAWELYGSPNALVLLIAQEKERNIFDQRAIEN
ELLARNIHVIRRTFEDI SEKGLDQDRRLFVDGQEI AVVYFRDGYMPRQYSLQNWEARLLERSHAAKCPDIATQ
LAGTKKVQQELSRPGMLEMLLPGQPEAVARLRATFAGLYSLDVGEEDQAI AEALAAPSRFVLKPQREGGNNLY
GEEMVQALKQLKDSEERASYILMEKIEPEPFENCLLRPGSPARVVQCISELGIFGVYVRQEKTLVMNKHVGHLLR
TKAIEHADGGVAAGVAVLDNPYPV

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FIGURE 5740

GGAAGAACCCGCAGCAGCTCCCAGGATGAACTGGTTGCAGTGGCTGCTGCTGCTGCGGGGGCGCTGAGAGGACAC
GAGCTCTATGCCTTTCCGGCTGCTCATCCCGCTCGGCCTCCTGTGCGCGCTGCTGCCTCAGCACCATGGTGCGCC
AGGTCCCGACGGCTCCGCGCCAGATCCCGCCCACTACAGGGAGCGAGTCAAGGCCATGTTCTACCACGCCTACGA
CAGCTACCTGGAGAATGCCCTTCCCTTCGATGAGCTGCGACCTCTCACCTGTGACGGGCACGACACCTGGGGCAG
TTTCTCTCTGACTCTAATTGATGCACTGGACACCTTGCTGATTTTGGGGAATGTCTCAGAATTCCAAAGAGTGGT
TGAAGTGCTCCAGGACAGCGTGGACTTTGATATTGATGTGAACGCCTCTGTGTTTGAAACAAACATTCGAGTGGT
AGGAGGACTCCTGTCTGCTCATCTGCTCTCCAAGAAGGCTGGGGTGGAAGTAGAGGCTGGATGGCCCTGTTCCGG
GCCTCTCCTGAGAATGGCTGAGGAGGCGGCCCCGAAAACCTCCTCCCAGCCTTTCAGACCCCCACTGGCATGCCATA
TGGAACAGTGAACCTTACTTCATGGCGTGAAACCCAGGAGAGACCCCTGTACCTGTACGGCAGGGATTGGGACCTT
CATTGTTGAATTTGCCACCCTGAGCAGCCTCACTGGTGACCCGGTGTTTGAAGATGTGGCCAGAGTGGCTTTGAT
GCGCCTCTGGGAGAGCCGGTCAGATATCGGGCTGGTTCGGCAACCACATTGATGTGCTCACTGGCAAGTGGGTGGC
CCAGGACGCAGGCATCGGGGCTGGCGTGGACTCCTACTTTGAGTACTTGGTGAAAGGAGCCATCCTGCTTCAGGA
TAAGAAGCTCATGGCCATGTTCTAGAGTATAACAAAGCCATCCGGAACCTACACCCGCTTCGATGACTGGTACCT
GTGGGTTTCAAGTGTACAAGGGGACTGTGTCCATGCCAGTCTTCCAGTCTTGGAGGCCTACTGGCCTGGTCTTCA
GAGCCTCATTGGAGACATTGACAATGCCATGAGGACCTTCTCACTACTACACTGTATGGAAGCAGTTTGGGGG
GCTCCCGGAATTCTACAACATTCCTCAGGGATACACAGTGGAGAAGCGAGAGGGCTACCCACTTCGGCCAGAAT
TATTGAAAGCGCAATGTACCTCTACCGTGCCACGGGGGATCCCACCCTCCTAGAACTCGGAAGAGATGCTGTGGA
ATCCATTGAAAAAATCAGCAAGGTGGAGTGGGATTTGCAACAATCAAAGATCTGCGAGACCACAAGCTGGACAA
CCGCATGGAGTCGTTCTTCTGGCCGAGACTGTGAAATACCTCTACCTCCTGTTTGACCCAACCAACTTCATCCA
CAACAATGGGTCCACCTTCGACACGGTGATCACCCCTATGGGGAGTGATCCTGGGGGCTGGGGGGTACATCTT
CAACACAGAAGCTCACCCCATCGACCCCTGCCGCCCTGCACTGCTGCCAGAGGCTGAAGGAAGAGCAGTGGGAGGT
GGAGGACTTGATGAGGGAATTCTACTCTCTCAAACGGTGCAGGTGCAAATTTAGAAAAACACTGTTAGTTTCGGG
GCCATGGGAACCTCCAGCAAGGCCAGGAACACTCTTCTCACCAGAAAACCATGACCAGGCAAGGGAGAGGAAGCC
TGCCAAACAGAAGGTCCCACCTTCTCAGCTGCCCCAGTCAGCCCTTCACCTCCAAGTTGGCATTACTGGGACAGGT
TTTCTAGACTCCTCATATAACCACTGGATAATTTTTTTATTTTTATTTTTTTGAGGCTAAACTATAATAAATTGCT
TTTGGCTATC

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FIGURE 5741

MPFRLLIPLGLLCALLPQHGGAPGPDGSAPDPAHYRERVKAMFYHAYDSYLENAFPFDELRLPTCDGHDTWGSFS
LTLIDALDTLLIILGNVSEFQRVVEVLQDSVDFDIDVNASVFETNIRVVGGLLSAHLSSKKAGVEVEAGWPCSGPL
LRMAEEAARKLLPAFQTPPTGMPYGTVNLLHGVNPGETPVTCTAGIGTFIVEFATLSSLTGDPVFEDVARVALMRL
WESRSDIGLVGNHIDVLTGKWVAQDAGIGAGVDSYFEYLVKGAILLQDKKLMAMFLEYNKAIRNYTRFDDWYLWV
QMYKGTVSMPVVFQSLEAYWPGLQSLIGDIDNAMRTFLNYYTVWKQFGGLPEFYNIPOGYTVEKREGYPLRPELIE
SAMYLYRATGDP TLLELGRDAVESIEKISKVECGFATIKDLRDHKLDNRMESFFLAETVKYLYLLFDPTNFIHNN
GSTFDTVITPYGECILGAGGYIFNTEAHPIDPAALHCCQRLKEEQWEVEDLMREFYSLKRCRSKFQKNTVSSGPW
EPPARPGTLFSPENHDQARERKPAKQKVPLLSCPSQPFTSKLALLGQVFLDSS

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FIGURE 5742

GACGGAAACCTTTTTAGGGAGTCCAAGGTACAGTCGCCGCGTGCGAGCTTGTTACTGGTTACTTGGCCTCATGGC
GGTCCGAGCTTCGTTTCGAGAACAACCTGTGAGATCGGCTGCTTTGCCAAGCTCACCAACACCTACTGTCTGGTAGC
GATCGGAGGCTCAGAGAACTTCTACAGTGTGTTTCGAGGGCGAGCTCTCCGATACCATCCCCGTGGTGCACGCGTC
TATCGCCGGCTGCCGCATCATCGGGCGCATGTGTGTGGGGAACAGGCACGGTCTCCTGGTACCCAACAATACCAC
CGACCAGGAGCTGCAACACATTTCGCAACAGCCTCCCAGACACAGTGCAGATTAGGCGGGTGGAGGAGCGGCTCTC
AGCCTTGGGCAATGTCAACCACCTGCAATGACTACGTGGCCTTGGTCCACCCAGACTTGGACAGGGAGACAGAGA
AATTCTGGCAGATGTGCTCAAGGTGGAAGTCTTCAGACAGACAGTGGCCGACCAGGTGCTAGTAGGAAGCTACTG
TGTCTTCAGCAATCAGGGAGGGCTGGTGCATCCCAAGACTTCAATTGAAGACCAGGATGAGCTGTCTCTCTTCT
TCAAGTCCCCCTTGTGGCGGGGACTGTGAACCGAGGCAGTGAGGTGATTGCTGCTGGGATGGTGGTGAATGACTG
GTGTGCCCTTCTGTGGCCTGGACACAACCAGCACAGAGCTGTCTAGTGGTGGAGAGTGTCTTCAAGCTGAATGAAGC
CCAGCCTAGCACCATTTGCCACCAGCATGCGGGATTCCCTCATTGACAGCCTCACCTGAGTCACCTTCCAAGTTGT
TCCATGGGCTCCTGGCTCTGGACTGTGGCCAACCTTCTCCACATTCCGCCCAATCTGTACCGGATGCTGGCAGGG
AGGTGGCAGAGAGCTCACTGGGACTGAGGGGCTGGGCACCCAACCTTTTCCACCTGTGCTTATCGCCTGGATCT
ATCATTACTGCAAAAACCTGCTCTGTTGTGCTGGCTGGCAGGCCCTGTGGCTGCTGGCTGAGGGTTCTGCTGTCC
TGTGCCACCCCATTAAGTGCAGTTCCTCCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5743

MAVRASFENNCEIGCFAKLTNTYCLVAIGGSENFYSVFEGELSDTIPVVHASIAGCRIIGRMCVGNRHGLLVPNN
TTDQELQHIRNSLPDTVQIRRVEERLSALGNVTTTCNDYVALVHPDLDRETEEILADVLKVEVFRQTVADQVLVGS
YCVFSNQGGGLVHPKTSIEDQDELSSLQVPLVAGTVNRGSEVIAAGMVVNDWCAFCGLDTTSTELSVVESVFKLN
EAQPSTIATSMRDSLIDSLT

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FIGURE 5744A

CGTTCGGGCAGCGGCCCTCTTGTTACCCGGGGCCCGCTTGCCCTCAGCTTCTTGCTGCCGCCAGCACGCTAAGCTCC
AGTCGGCGCCGAAGGAGAGCTTCCCGACCCCTCGTGTCCAGTAGCCGCAATCCCAGGCTGGGAGGGTGAGGCGCCG
CGCTCTGCCGCCCCCCCCCGCCCTCGCTCCCTGTGTCTTGGCGGATTTGCACGTAATCTATCCGAAAGCCCAGTCC
CACCCGCCACCCGACTCTGGAGCTCCCATTTCTTCAGGACCCTGCTGAAGTATCGCTTCTCAGCCGCCCTTCTCCAG
GCGCAGCTGCATTTCGCTTCTCGGTTTTTGCACTCGCTGTGCACCGAGTTACTTTCCCGGCCCTCGTTGACACCG
TTCACAGGTGGCTGTTGGTCTTTAGTAAGGGTGTGTCTTCCCTGTCTGATCCTTAGCAAAAGTAGGAAGGTAGA
GTTGTTGGCAGAAATCCTGGGATAAGAGAATAGTTTCTGGAAGATCTGTGCCCTCCAACCAGCAGAGAGGGATTG
AGCTTCATTGAACTCAACAGAGCCAACATTTTCATAGCACCATGTTCAAGAGGAGGTTGAAGTGGCATGGCAATGG
TTAGAGACCCTGTCTGGGCGTGAACACCCTCTGGCTACCTAGGGACCTGTGGGCCTACCACCTGGTGCCCTCATGG
AGACAAGAAGCCCTGGGTTGAACAACATGAAGCCCCAGTCACTGCAGCTGGTACTGGAAGAGCAGGTGCTGGCAC
TACAGCAGCAGATGGCAGAGAATCAGGCAGCCTCCTGGCGGAAGCTGAAGAATCCCAGGAGGCCCAGCAGAGAC
AAGCAACCCCTGTGAGGAAGCTGCAGGCCAAGGTGCTGCAGTACCGAAGCTGGTGCCAAGAGCTGGAGAAGCGGC
TAGAAGCCACTGGAGGACCAATCCCCCAGAGGTGGGAAAATGTGGAGGAGCCAAACCTGGATGAGCTGCTGGTCC
GATTGGAGGAGGAGCAACAGAGGTGTGAGAGTCTAGCAGAGGTGAACACCCAGCTTCGACTGCACATGGAAAAAG
CTGACGTGGTGAATAAAGCCCTTAGGGAAGATGTGGAAAACTGACAGTGGACTGGAGCCGGCCCCGGGATGAGC
TAATGAGGAAGGAGAGCCAGTGGCAGATGGAGCAGGAGTTCTTCAAGGGCTACCTGAAAGGGGAGCACGGTGCCT
TTCTCAGTCTATGGCGGGAGGTTGTGACATTCGACGCCACTTCTTGAAATGAAGTCAGCTACTGACAGAGATC
TGATGGAGCTAAAAGCTGAGCATGTGAGGCTTTCAGGGTCTCTGTTGACCTGTTGTCTGCGCTTGACTGTGGGAG
CACAGTCTCGGGAACCCAAACGGATCTGGAAGAATGGATGGGCGGGAGCCGGCCAGCTGCTGCTGCTACTAGCCA
AGACCCAGGAGCTGGAGAAGGAAGCCCATGAAAGGAGCCAGGAGTTAATACAGCTGAAGAGTCAAGGGGATCTGG
AGAAGCTGAACCTCAGGACCGGGTGACCGAGCTCTCTGCTCTGTTGACCCAGTCTCAGAAGCAAAATGAAGATT
ATGAAAAGATGAATAAGGCTCTGAGAGAGACAGTGGAGATCCTGGAGACAAATCACACAGAATTAATGGAACATG
AAGCATCTCTTAGTAGGAATGCGCAAGAGGAGAAGTTGTCTTTACAGCAGGTGATCAAGGATATAACCCAGGTCA
TGGTGAAGAAGGGGACAATATAGCCCAAGGCTCTGGTTCATGAGAACTCTTTGGAATTGGACTCTAGTATCTTCT
CCCAGTTTGATTACCAGGATGCAGACAAGGCTCTTACTCTGGTGCGTTCAGTGCTGACTCGGAGACGCCAGGCTG
TGCAGGACCTAAGGCAGCAGCTTGCAGGCTGTCAAGAGGCTGTGAACCTGTTGCAACAGCAGCATGATCAGTGGG
AGGAAGAGGGCAAAGCCTTGAGACAGCGGCTGCAGAAGCTCACTGGGGAGCGGGACACTCTGGCAGGGCAGACTG
TGGACCTCCAGGGAGAGGTGGACTCTCTCAGCAAGGAGCGAGAGCTGCTGCAGAAGGCCAGGGAAGAGCTGCGGC
AGCAGCTGGAGGTGCTAGAGCAGGAGGATGGCGCCTGCGAAGGGTAAATGTGGAGCTTACAGCTGCAGGGGGACT
CTGCCCAGGGCCAGAAGGAGGAACAGCAGGAGGAGCTGCACCTGGCTGTCCGGGAGAGGGAGCGTCTTCAGGAGA
TGCTGATGGGCCTGGAAGCCAAACAGTCAGAATCACTCAGTGAAGTGAATCACTCTTCGGAAGCCCTGGAGTCAA
GTCACCTGGAAGGGGAGTTACTGAGGCAAGAGCAAACGGAAGTGACCGCAGCGCTGGCTAGGGCAGAGCAGTCAA
TTGCAGAGCTGTGAGTTCTGAAAACACCCCTGAAGACAGAAGTAGCTGATCTTCGGGCTGCAGCTGTCAAGCTCA
GTGCCTTAAATGAGGCTTTGGCGTTAGATAAAGTTGGGCTGAACCAGCAGCTTCTCCAGTTAGAGGAGGAGAACC
AGTCTGTGTGCAGCAGAATGGAGGCCGAGAGCAGGCGAGAAATGCTTTGCAGGTGCAGCTTGGCGGAGGCAGAGA
AGAGGAGGGAAGCCCTGTGGGAAAAGAACACTCACCTGGAGGCTCAGCTGCAGAAAGCTGAGGAGGCTGGGGCTG
AGCTGCAGGCAGATCTCAGGGACATCCAAGAAAGAGAAGGAAGAAATTCAAAGAAACTAAGTGAGTCACGTCACC
AGCAGGAGGCAGCCACGACTCAGCTGGAGCAGCTACATCAGGAGGCAAAGCGACAGGAAGAAGTGCTTGCCAGGG
CAGTCCAGGAGAAGGAGGCCCTAGTACGAGAGAAAAGCGGCTCTAGAGGTGCGGCTGCAGGCCGTGGAGCGTGACC
GGCAGGACCTCGCTGAACAACTACAGGGGCTCAGCTCAGCCAAGGAGCTACTGGAGAGCAGTCTGTTTGAAGCCC
AACAACAAAATTCTGTGATAGAGGTACCAAGGGGCAGCTGGAGGTCCAGATTCAAACCTGTCACTCAAGCCAAGG
AAGTAATCCAAGGGGAAGTGAGGTGCCTGAAGCTGGAACCTGGACACTGAACGGAGTCAGGCAGAGCAGGAGCGGG
ATGCTGCAGCCAGACAGCTGGCCCAGGCTGAGCAAGAAGGGAAGACTGCCTTGGAGCAGCAGAAGGCAGCCCCATG
AGAAAGAGGTGAACCAGTCCGGGAGAAATGGGAGAAGGAGCGCTCCTGGCACCAGCAGGAGCTGGCAAAGGCTC
TGGAGAGCTTAGAAAGGGAAAAATGGAGCTGGAAATGAGGCTAAAGGAGCAGCAGACAGAAATGGAGGCCATCC
AGGCCCAGAGGGAAGAAGAACGGACCCAGGCAGAGAGTGCCCTATGCCAGATGCAGCTGGAACAGAGAAGGAGA
GAGTATCCCTCCTGGAGACACTGCTGCAGACGCAGAAGGAGCTAGCAGATGCCAGCCAACACTGGAACGACTGA
GGCAGGACATGAAAGTCCAGAAATTAAGGAGCAGGAGACCCTGGGATACTACAGACCCAGCTCCAGGAGGCTC

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FIGURE 5744B

AACGGGAGCTGAAGGAGGCAGCCCGGCAGCACAGAGATGACCTTGCTGCCCTCCAAGAAGAGAGCAGCTCCCTGC
TGCAGGATAAGATGGACCTGCAGAAGCAGGTGGAGGACTTGAAGTCTCAGCTGGTGGCCAGGATGACTCC'CAGA
GGCTGGTGGAGCAGGAGGTTTCAAGGAGAAGCTGAGAGAGACCCAGGAGTATAACCGAATTGAGAAGGAGCTGGAGA
GAGAGAAAAGCCAGCCTGACTCTGTCTACTGATGGAAGGAACAGAGACTCCTTGTTTTACAAGAAGCTGACTCTA
TTCGACAACAAGAGCTGAGTGCCCTGCGCCAGGACATGCAGGAGGCCAGGGAGAACAGAAAGAGCTCAGTGCTC
AGATGGAATTAATAAGGCAAGAGGTGAAGGAAAAGGAGGCTGACTTTCTGGCCAGGAAGCACAGCTGCTGGAGG
AGCTGGAGGCGTCTCATATCACGGAGCAGCAGCTGCGAGCCTCCTTGTTGGGCCAGGAAGCCAAGGCAGCCCAAC
TACAGCTGCGACTGCGCAGCACAGAGAGCCAGCTAGAAGCGCTGGCCGCAGAGCAGCAGCCCGGAACCAGGCC
AGGCCAGGCCAGCTGGCCAGCCTCTACTCTGCCCTGCAGCAGGCCCTGGGGTCTGTTTGTGAGAGCAGGCCTG
AGCTGAGTGGTGGGGGAGACTCTGCTCCTTCCGTCTGGGGCCTTGAGCCAGACCAGAATGGAGCTAGGAGCCTCT
TTAAGAGAGGGCCCCCTGCTGACTGCTCTCTCCGTCTGAGGCAGTAGCATCTGCCCTCCACAAGCTTCATCAAGACC
TGTGGAAGACTCAACAGACCCGGGATGTTCTGAGGGATCAGGTCCAGAACTGGAAGAGCGTCTAACTGATACTG
AGGCTGAGAAGAGCCAGGTCCACACAGAGTTGCAGGATCTGCAGAGACAGCTCTCCAGAATCAGGAAGAGAAAT
CCAAGTGGGAAGGAAAGCAGAACTCCCTAGAATCTGAGCTGATGGAATACATGAACTATGGCATCCTTACAGA
GTCGCTGCGGAGAGCAGAGCTACAGCGAATGGAAGCCCAGGGTGAGCGAGAGTTACTTCAGGCAGCCAAGGAGA
ACCTGACAGCCCAGGTGGAACACCTGCAAGCAGCTGTCTGTAAGCCAGGGCTCAGGCAAGTGCTGCTGGCATCC
TGGAAGAAGACCTGAGAACGGCTCGCTCAGCACTGAAGCTGAAAAATGAGGAAGTAGAGAGTGAGCGTGAGAGAG
CCCAGGCTCTGCAAGAGCAGGGCGAACTGAAGGTGGCCCAAGGGAAGGCTCTGCAAGAGAATTTGGCCCTCCTGA
CCCAGACCCTAGCTGAAAGAGAAGAGGAGGTGGAGACTCTGCGGGGACAAATCCAGGAATGGAGAAGCAACGGG
AAATGCAGAAGGCTGCTTTGGAATTGCTGTCTCTGGACCTGAAGAAGAGGAACCAAGAGGTAGATCTGCAGCAAG
AACAGATTAGGAGCTAGAGAAGTGTAGGTCTGTTTTAGAGCATCTGCCATGGCCGTCCAGGAGCGAGAGCAGA
AGCTGACTGTGCAGAGGGAGCAGATCAGAGAGCTCGAGAAGGATCGGGAGACTCAGAGGAACGTCTTGAGCATC
AGCTTCTAGAACTTGAGAAGAAAGACCAATGATTGAGTCCCAGAGAGGACAGGTTTCAAGGACCTGAAAAAGCAGT
TGGTTACTCTGGAATGCCTGGCCCTGGAATGGAGGAAAACCATCACAAAGATGGAGTGCCAGCAAAAAGTATCA
AGGAGCTGGAGGGCCAGAGGGAACCCAGAGAGTGGCTTTGACCCACCTTACGCTGGACCTAGAAGAAAGGAGCC
AGAGGGACCAGGAGGTGAAGTCTCAGCGAGAACAGATCGAGGAGCTGCAGAGGCAGAAAGAGCATCTGACTCAGG
ATCTCGAGAGGAGAGACCAGGAGCTGATGCTGAGAAGGAGGATTGAGTTCTCGAGGATCAGAGGACCCGGC
AGACCAAGATCCTGGAGGAGGACCTGGAACAGATCAAGCTGTCTTGAGAGAGCGAGGCCGGGAGCTGACCACTC
AGAGGCAGCTGATGCAGGAACGGGCAGAGGAAGGGAAGGGCCCAAGTAAAGCACAGCGCGGGAGCCCTAGAGCACA
TGAAGCTGATCCTGCGTGATAAGGAGAAGGAGGTGGAATGTGAGAGGAGCATATCCATGAACTCCAGGAGCTCA
AAGACCAGCTGGAGCAGCAGCTCCAGGGCCTGCACAGGAAGGTAGGTGAGACCAGCCTCCTCCTGTCCCAGCGAG
AGCAGGAAATAGTGGTCTGTCAGCAGCAACTGCAGGAAGCCAGGGAACAAGGGGAGCTGAAGGAGCAGTCACTTC
AGAGTCAACTGGATGAGGCCAGAGAGCCCTAGCCCAGAGGGACCAGGAACCTGGAGGCTCTGCAGCAAGAACAGC
AGCAGGCCAGGGACAGGAGGAGAGGGTGAAGGAAAAGGCAGACGCCCTCCAGGGAGCTCTGGAGCAAGCCCAT
TGACACTGAAGGAGCGTCATGGAGAGCTTCAGGACCACAAGGAACAGGCACGAAGGCTGGAGGAAGAGCTGGCAG
TGGAGGGACGGCGGGTCCAGGCCCTGGAGGAGGTGCTGGGAGACCTAAGGGCTGAGTCTCGGGAACAGGAGAAAG
CTCTGTTGGCCCTCCAGCAGCAGTGTGCTGAGCAGGCACAGGAGCATGAGGTGGAGACCAGGGCCCTGCAGGACA
GCTGGCTGCAGGCCAGGAGTGTCAAGGAACGGGACCAGGAGCTGGAAGCTCTGCGGGCAGAAAGTCACTCCT
CCCGGCATCAGGAGGAGGCTGCCCGGGCCCGGGCTGAGGCTCTGCAGGAGGCCCTTGCAAGGCTCATGCTGCC
TGCAGGGGAAAGAGCAGCATCTCCTCGAGCAGGCAGAAATGAGCCGAGTCTGGAGGCCAGCACTGCAACCCTGC
AAGCCTCCCTGGATGCCTGCCAGGCACACAGTCCGCGAGCTGGAGGAGGCTCTGAGGATACAAGAAGGTGAGATCC
AGGACCAGGATCTCCGATACCAGGAGGATGTGAGCAGCTGCAGCAGGCACCTTGCCAGAGGGATGAAGAGCTGA
GACATCAGCAGGAACGGGAGCAGCTGCTGGAGAAGTCTCTGGCCAGAGGGTCCAAGAGAATATGATCCAAGAGA
AGCAGAATCTGGGGCAAGAGAGAGAAGAGGAGGAGATAAGGGGCCCTTCATCAGAGTGTAAGGGAGCTACAGCTGA
CTCTAGCCCAAAAGGAACAGGAGATTCTGGAGCTGAGGGAGACCCAGCAAAGGAACAACCTGGAAGCCTTACCCC
ACAGCCACAAAACCTCCCAATGGAGGAACAATCTCTAAAACCTTGATTCTTTAGAGCCAGGCTGCAGCGGGAGC
TGGAGCGGCTACAGGCAGCCCTGAGACAGACAGAAGCCAGGGAGATTGAGTGGAGGGAGAAGGCCAGGACTTGG

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FIGURE 5744C

CACTCTCCCTAGCGCAGACCAAGGCCAGTGTCAGCAGTCTGCAGGAGGTAGCCATGTTCCCTACAAGCCTCTGTCC
TGGAGCGGGACTCAGAACAGCAAAGGCTGCAGGATGAACTGGAGCTCACCAGACGGGCTCTGGAGAAGGAGCGGC
TACACAGCCCAGGTGCAACCAGCACAGCAGAACTGGGGTCCAGAGGGGAGCAGGGTGTGCAGCTGGGAGAGGTCT
CAGGAGTGGAGGCTGAGCCTAGTCCTGATGGAATGGAGAAGCAGTCATGGAGACAAAGGCTTGAACACCTGCAGC
AAGCAGTGGCCCGGCTGGAGATTGACAGGAGCAGGCTGCAGCGCCACAATGTCCAGCTGCGGAGTACCTTGGAGC
AGGTGGAGCGAGAACGGAGGAAGCTGAAGAGGGAGGCCATGCGTGCGGCCAGGCAGGGTCCCTAGAGATCAGCA
AGGCCACGGCTTCTTACCCACACAGCAGGATGGGAGAGGACAGAAGAACTCAGATGCCAAGTGTGTGGCTGAAC
TGCAGAAAGAGGTGGTCTCTGTGCAAGCTCAGCTGACTTTGGAGCGGAAGCAGAAGCAGGACTACATCACCCGCT
CAGCACAGACCAGCCGTGAGCTAGCAGGCCTGCACCACAGCCTCTCACACTCACTTCTTGCCGTGGCCAGGCCC
CTGAGGCCACTGTCTTGGAGGCAGAGACCCGCAGGCTGGATGAGTCCCTGACTCAAAGTCTGACATCCCCAGGGC
CAGTCTTGCTACACCCCAGCCCCAGCACTACCCAAGCCGCCTCCAGGTAGCAGCCACAGCCAGGAGCACACAGAC
AGAAGACTGTGTTCATGGGTCTATGGCCCCTCCGCACACCTACAGGTTTGCCAAAGGAAAAGCCTGGCTCTGTTAGG
CAGGAGGAGCCCCAGGTGCGCGGGTGTTCAGGAAGAGGAAGTAAATCTGCAACCCCTGGGGAGGACCCCACT
CACCTGGGAATGAGGCAAATTGCATTGCTTGCTCCCTATGGAATCAGGAGGGGTGCCCTTGCCCTGGCTGAG
GGACATGTACTGCCTCTCATCTAGAATTTATTTTCTAGCACTTCACCACCTCCTTCATCTTCTCCTTCAACAAT
AAACCCTGAGATCTTTGCATTCAAAAAAAAAAAAAAAAAA

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FIGURE 5745

CTGGCGTCCCCCTTCCGGCCGGTCCCCATGGAGGCGCTGGGGAAGCTGAAGCAGTTTCGATGCCTACCCCAAGACT
TTGGAGGACTTCCGGGTCAAGACCTGCGGGGGCGCCACCGTGACCATTGTTCAGTGGCCTTCTCATGCTGCTACTG
TTCCTGTCCGAGCTGCAGTATTACCTCACCACGGAGGTGCATCCTGAGCTCTACGTGGACAAGTCGCGGGGAGAT
AAACTGAAGATCAACATCGATGTACTTTTTCCGCACATGCCTTGTGCCTATCTGAGTATTGATGCCATGGATGTG
GCCGAGAACAGCAGCTGGATGTGGAACACAACCTGTTCAAGCAACGACTAGATAAAGATGGCATCCCCGTGAGC
TCAGAGGCTGAGCGGCATGAGCTTGGGAAAGTCGAGGTGACGGTGTGTTGACCCTGACTCCCTGGACCCGTATCGC
TGTGAGAGCTGCTATGGTGTCTGAGGCAGAAGATATCAAGTGCTGTAACACCTGTGAAGATGTGCGGGAGGCATAT
CGCCGTAGAGGCTGGGCCTTCAAGAACCCAGATACTATTGAGCAGTGCCGGCGAGAGGGCTTCAGCCAGAAGATG
CAGGAGCAGAAGAATGAAGGCTGCCAGGTGTATGGCTTCTTGGAAGTCAATAAGGTGGCCGGAACCTTCCACTTT
GCCCCTGGGAAGAGCTTCCAGCAGTCCCATGTGCACGTCCATGACTTGCAGAGCTTTGGCCTTGACAACATCAAC
ATGACCCACTACATCCAGCACCTGTCAATTTGGGGAGGACTATCCAGGCATTGTGAACCCCTGGACCACACCAAT
GTCAGTGCGCCCAAGCCTCCATGATGTTCCAGTACTTTGTGAAGGTGGTGCCCACTGTGTACATGAAGGTGGAC
GGAGAGGTACTGAGGACAAATCAGTTCTCTGTGACCAGACATGAGAAGGTTGCCAATGGGCTGTTGGGCGACCAA
GGCCTTCCCGGAGTCTTCGTCTCTATGAGCTCTCGCCCATGATGGTGAAGCTGACGGAGAAGCACAGGTCCCTTC
ACCCACTTCCTGACAGGTGTGTGCGCCATCATTGGGGCATGTTACAGTGGCTGGACTCATCGATTGCTCATC
TACCACTCAGCACGAGCCATCCAGAAGAAAATTGATCTAGGGAAGACAACGTACTCACCCCTCGGTGCTTCCTCTG
TCTCCTCTTTCTCCCTGGCCTGTGGTTGTCCCCAGCCTCTGCCACCCTCCACCTCCTCGGTCAGCCCCAGCCCC
AGGTTGATAAATCTATTGATTGATTGTGATAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5746

MEALGKCLKQFDAYPKTLED FRVKTCGGATVTIVSGLLMLLLFLSELQYYLTTEVHPELYVDKSRGDKLKINIDVL
FPHMPCAYLSIDAMDVAGEQQLDVEHNLFKQRLDKDGIPVSSEAERHELKGVEVTVFDPDSLDPDRCESCYGAEA
EDIKCCNTCEDVREAYRRRGWAFKNPDTIEQCRREGFSQKMQEQKNEGCQVYGFLVNVKVAGNFHFAPGKSFQQS
HVHVHDLQSFGLDNINMTHYIQHLSFGEDYPGIVNPLDHTNVTAPQASMMFQYFVKVVP TVYMKVDGEVLR TNQF
SVTRHEKVANGLLG DQGLPGVFVLYELSPMMVKLTEKHRSFTHFLTGVCAIIGGMFTVAGLIDSLIYHSARAIQK
KIDLGKTT

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FIGURE 5747

ACCAGGCAAATATTCCATTGAGCATTACAAAGATGGATGTTCTTCAGTTCCCTAGAAGGAATCCCACTGGATGAAA
ATGCTGTACATGTTCTTGTGATAACAATGGGCAAGGTCTAGGACAGGCATTGGTTTCAGTTTAAAAATGAAGATG
ATGCACATGGCCCCACTGCGTGACCTTGGTTTCAGCTGTCCATTTCCCTGTGACCATCTCATTGACAAGGACATCGGC
TCCAAGTCTGACCCACTCTGCGTCCTTTTACAGGATGIGGGAGGGGGCAGCTGGGCTGAGCTTGGCCGGACTGAA
CGGGTGCGGAACCTGCTCAAGCCCTGAGTTCTCCAAGACTCTACAGCTTGAGTACCGCTTTGAGACAGTCCAGAAG
CTACGCTTTTGAATCTATGACATAGACAACAAGACGCCAGAGCTGAGGGATGATGACTTCCTAGGGGGTGCTGAG
TGTTCCCTAGGACAGATTGTGTCCAGCCAGGTACTGACTCTCCCTTGATGCTGAAGCCTGGAAAACCTGCTGGG
CGGGGGACCATCACGGTCTCAGCTCAGGAATTAAAGGACAATCGTGTAGTAACCATGGAGGTAGAGGCCAGAAAC
CTAGATAAGAAGGACTTCCTGGGAAAATCAGATCCATTTCTGGAGTTCTTCCGCCAGGGTGATGGGAAATGGCAC
CTGGTGACAGATCTGAGGTCACTCAAGAACAACCTGAACCCTACATGGAAGCGTTTCTCAGTCCCCGTTTCAGCAT
TTCTGTGGTGGGAACCCAGCACACCCATCCAGGTGCAATGCTCCGATTATGACAGTGACGGGTCACATGATCTC
ATCGGTACCTTCCACACCAGCTTGGCCAGCTGCAGGCAGTCCCGGCTGAGTTTGAATGCATCCACCCTGAGAAG
CAGCAGAAAAAGAAAAGCTACAAGAACTCTGGAATATCCGTGTCAAGATTTGTGCGGGTAGAAAACAGAGTACTCC
TTTCTGGACTATGTGATGGGAGGCTGTGAGTCAACTTCACTGTGGGCGTGGACTTCACTGGCTCCAATGGAGAC
CCCTCCTCACCTGACTCCCTACACTACCTGAGTCCAACAGGGGTCAATGAGTACCTGATGGCACTGTGGAGTGTG
GGCAGCGTGGTTTCAGGACTATGACTCAGACAAGCTGTTCCCTGCATTGGATTGGGGCCAGGTTCCCCCTGAC
TGGCAGGTCTCGCATGAATTTGCCTTGAATTTCAACCCAGTAACCCCTACTGTGCAGGCATCCAGGGCATTGTG
GATGCCTACCGCCAAGCCCTGCCCCAAGTTCGCCTCTATGGCCCTACCAACTTTGCACCCATCATCAACCATGTG
GCCAGGTTTGCAGCCAGGCTGCACATCAGGGGACTGCCTCGCAATACTTCATGCTGTTGCTGCTGACTGATGGT
GCTGTGACGGATGTGGAAGCCACACGTGAGGCTGTGGTGCCTCGAACCTGCCCATGTGAGTGATCATTGTG
GGTGTGGGTGGTGTGACTTTGAGGCCATGGAGCAGCTGGACGCTGATGGTGGACCCCTGCATACACGTTCTGGG
CAGGCTGCTGCCCCGACATTGTGAGTTTGTACCTACCGCCGGTTCCAGAATGCCCTCGGGAGGCATTGGCA
CAGACCGTGTCTGCAGAAGTGCCACACAACCTGGTCTCATACTTCAGGGCCAGGGTTGGGCCCCGCTCAAGCCA
CTTCCACCCTCAGCCAAGGATCCTGCACAGGCCCCCAGGCCTAGGTTCCCTTGGAGGCTGTGGCAAGTCTCTAA
TCCTGTGTCCAGAGGTCCCTXTGGGCCACAACCAACCCTTCTCACTCTCCTCAGTGCTAGCACTTTGTATTTT
TTGATACTTTTATACTTGTCTTTGCTGCTCTTGATCCCACCTTTGCTCCTGACAACCCTCATTCAATAA
AGACCAGTGAAGACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5748

MAHCVTLVQLSISCDHLIDKDIGSKSDPLCVLLQDVGGGSWAELGRTERVRNCSSPEFSKTLQLEYRFETVQKLR
FGIYDIDNKTPELRDDDFLGGAECSLGQIVSSQVLTLPMLKPGKPAGRGITITVSAQELKDNRVVTMEVEARNLD
KKDFLGKSDPFLEFFRQGDGKWHLVYRSEVIKNNLNPTWKRFSPVQHFCCGPNPSTPIQVQCSDDYSDGSHDLIG
TFHTSLAQLQAVPAEFECIHPEKQKKKSYKNSGTIRVKICRVETEYSFLDYVMGGCQINFVGVDFGTSGNDPS
SPDSLHYLSPTGVNEYLMALWSVGSVVQDYDSKLFPAFGFGAQVPPDWQVSHEFALNFPNPNPCAGIQGIVDA
YRQALPQVRLYGPTNFAPIIINHVARFAAQAAHQGTASQYFMLLLLTGAVTDVEATREAVVRASNLPM SVIIVGV
GGADFEAMEQLDADGGPLHTRSGQAAARDIVQFVPYRRFQNA PREALAQTVLAEVPTQLVSYFRAQGWAPLKPLP
PSAKDPAQAPQA

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FIGURE 5749

GACGCGGGGCCGGAACGCGAAGAGGGTGGTGGAGTCGGGCTACCCACTGATTTTCCTTCCCTTACTTCCCCTGAG
CCCTTGGGCCCCTTCCCAGCCTACCGCTTCCGTCCCCGCCCCGACTCTTGGGCCAGCGCCTGGGCCCACACTTTC
CTATCCCCCGCAGATGCCGGTGGCCGTGGGTCCCTACGGACAGTCCCAGCCAAGCTGCTTCGACCGTGTCAAAAT
GGGCTTCGTGATGGGTTGCGCCGTGGGCATGGCGGCCGGGGCGCTCTTCGGCACCTTTTCCTGTCTCAGGATCGG
AATGCGGGGTCGAGAGCTGATGGGCGGCATTGGGAAAACCATGATGCAGAGTGGCGGCACCTTTGGCACATTCAT
GGCCATTGGGATGGGCATCCGATGCTAACCATGGTTGCCAACTACATCTGTCCCTTCCCATCAATCCCAGCCCAT
GTACTAATAAAAGAAAGTCTTTGAGT

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FIGURE 5750

GGACGCAGAGAAGCCAGAGACTTTTCGCTTCCGGCTGCCGCAGGCGCTTCGCTGGTGCAGGTAAGCTCCGCACACT
CTCGGCCGGTCCCGAGTCCGACTCCCTCAAGGGTGACGCGAGCTCTGCCCTTTAACCAGGAAACGTCTCCCTGCTC
ACCCACCCCCCGCGCAGACGCAGTGCTGAGCACACAGCTACCGGACAAAGAGTGACGCCCGGAGCTGGAGTTATG

GCGGCTACGGAGCCGATCTTGGCGGCCACTGGGAGTCCCGCGGCGGTGCCACCGGAGAACTGGAAGGAGCCGGT
TCGAGCTCAGCCCCCTGAGCGTAACTGTGTGGGCTCCTCGCTGCCAGAGGCCTCACCGCCTGCCCTGAGCCTTCC
AGTCCCAACGCCGCGGTCCCTGAAGCCATCCCTACGCCCCGAGCTGCGGCCTCCGCGGCCCTGGAGCTGCCTCTC
GGGCCCCGACCCGTGAGCGTAGCGCCTCAGGCCGAAGCTGAAGCGCGCTCCACACCAGGCCCGCCGGCTCTAGA
CTCGGTCCCGAGACGTTCCGCCAGCGTTTCCGGCAGTTCCGCTACCAGGATGCGGCGGGTCCCCGGGAGGCTTTC
CGGCAGCTGCGGGAGCTGTCCCGCCAGTGGCTGCGGCCTGACATCCGCACCAAGGAGCAGATCGTGGAGATGCTG
GTGCAAGAGCAGCTGCTCGCCATCCTGCCCGAGGCGGCTCGGGCCCGCGGATCCGCCGCCGCACGGATGTGCGC
ATCACTGGCTGAGCGGTGGAGCTGCGGGCGGCCAGGGCCGGGCGCTCTGTGCGGACTGGGGCCATGATCGGGCCC
GGGGGCTGAGCCTGGGACCCACCCCGTGTTAATGAAAAATGAGTTTGGCAGCGCCAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA

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FIGURE 5751

MAATEPILAAATGSPAAPVPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELP
LGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQFRQFRYQDAAGPREAFRLRELSRQWLRPDIRTKEQIVEM
LVQEQLLAILPEAARARRIRRTDVRI TG

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FIGURE 5752

CTTTTTCCTTTCCTGATTCCCTTGTGTATGTGTGGCTGGGCGCGCCCTCTTCTCGGCTCAGAGTCACGGAGTGCCT
TGAAC TAGGCCACCTCGCCGGGGCGGCTGGTTCTCTGTTTGTGGGACGCTGGTGTCTCTGGAGGCCCTTCCTGA
GAAGCCGTCGCCAGAGTTACGTTCGCGGTTTTCTTAACCTTTAGAGCCTGGGGGCCGGAGACCCTGATTGCACTCGA
CCTGGCTCTGCCCTACTCTCTGCGTGACTTCCACTGTTTCATCAAAGAAAAAGGGTTCTTTTGGTCAACCACCACT
GGCCCCATGGCTGCGGTGCAGATGGATCCTGAGCTAGCCAAGCGCCTCTTCTTTGAAGGGGCCACTGTGGTCATC
CTGAACATGCCCAAGGGAACAGAGTTTGGGATTGACTATAACTCCTGGGAGGTTCGGGCCCAAGTTCCGGGGCGTG
AAGATGATCCCTCCAGGCATCCACTTCCTCCACTACAGCTCTGTGGACAAGGCTAATCCGAAGGAAGTAGGCCCT
CGTATGGGTTTTCTTCTTAGCCTGCACCAGCGGGGGCTGACAGTGCTGCGCTGGAGCACACTCAGGGAAGAGGTA
GACCTGTCCCCAGCCCCAGAGTCTGAGGTGGAGGCCATGAGGGCCAACCTCCAGGAGCTGGACCAGTTCTTGGGG
CCTTACCCATATGCCACCCTGAAGAAGTGGATCTCACTACCAACTTCATCAGCGAAGCCACAGTGGAGAAGCTA
CAGCCCGAGAAATCGACAGATCTGTGCCTTTTCCGATGTGCTACCTGTGCTCTCCATGAAGCACACCAAGGACCGC
GTGGGGCAGAAATCTACCCCGCTGTGGCATTGAGTGCAAAAGCTACCAAGAGGGCCTGGCCCCGGCTACCAGAGATG
AAGCCAGAGCCGGGACAGAGATCCGCTTCTCAGAGCTGCCCACGCAGATGTTCCAGAGGGTGCCACGCCAGCT
GAGATAACCAAGCACAGCATGGACCTGAGCTATGCCCTGGAGACTGTGCTCAACAAGCAGTTCCCCAGCAGCCCC
CAGGATGTGCTTGGTGAACCTCCAGTTTGCTTTTGTGTGCTTCCTGCTGGGGAATGTGTACGAGGCATTTGAGCAT
TGGAAGCGGCTCCTGAACCTCCTGTGCCGGTCAGAAGCAGCCATGATGAAGCACACCCCTCTACATCAACCTC
ATCTCCATCCTGTACCACAGCTTGGTGAGATCCCGCTGACTTCTTCGTAGACATTGTCTCCCAAGACAACTTC
CTACCAGCACCTTACAGGTTTTCTTTTCTCTGCCTGCAGCATTGCCGTGGATGCCACCCTGAGAAAAGAAAGCT
GAAAAGTTCCAAGCTCACCTGACCAAGAAGTTCCGGTGGGACTTTGCTGCGGAACCTGAGGACTGTGCCCCGGTG
GTGGTGGAGCTCCCTGAGGGCATCGAGATGGGCTAACTCGGGGAGCGCTCTCAGCTGCGAGGGGGCCCCCTTCCAC
AGGGCTGCAGTCTGGCCTCTCCATTTACTTCTTCCATCCTGGGACCTGCCAGGGCAGCAATCTCTCCAGGTCC
TGCAAAGATGGAGCCAGAATTCCTTTTTCTACTGATAAATATATTTCTTCATTGCCAAAGAGGCTGTACCCATCC
TGAAGGCACATTTGTGGGTTCCCCATCAGCCAGGCCTTGGTGCTAACCTGGCTGAATTTACACAGGCTCTTACA
CACACACGCTCCTAGGAGACATCTGCCTACACGGCAACCATATTTCTCTGAATGAGAAGGAATTGAACCAAAAG
TCCAAGAAAGAACTGATTGCTTGTTCCATAGGAGCTTAGGAAACAAGAAACCCTGGATTGCCAGGGGGTCTGAG
AAGTTGGTTGGTGACTTTTTTTGCGGTTAAATGAAGGGTGATGGGGAGATCAGCCCGAATTGCCGCTGCCTCTT
GCTAAATAGGAGCAGAGGACTTGGCCTGCAGCTCCTTGGGAGCCCTTGATTGGGAAGAGAGTTTCAAGGGAGGCA
GCTGGATTCAATCTAGCAGGTGGTCAGCTTTCAGCTTCTCCATCGAAATCCCATTTCTCTGTCCAGAGGCCAGT
GGGTCACTCTCCAAGGTGGGTGTGGACCTGGCCTCAGAGGCCTTGCTGGTGCTGTACCTCCCACCTGTTCCAT
TCCGAGGCCTCACCCAGAAGTGGGACCCTCCCTTCCCTACCAGAGCCACCGTGACTGTTTCTGATGACCTGGAG
AGTCAACAACAACCAGAAAGGTTTTCTGCCAGAGCAGGCTTCTTAAGGCCTTTACGAAGTTTGTGCCTTCCAAG
TGCTGAAGAAGACCTGGTCAGCCTAAATCTTCCAGTCCCGCTGTGGAGCTGTGAGTCACCGGAGTAATGAGCTC
CTGGTTCTCGGGAGTCTTTCGTGCTGTGTGGCAGGGTTCTCTCTAGACAAGTACACAGGCCCTGCCACCCTGA
CATCAAACTGTTGTACTATGATCACAGTCCCTGTGCCATCCTTTTCCAAGACTGGGGCTCACACCATGTTTTTGA
ATGAGAATCCCTGCTGGTTGAGACTTTTGCTTCCACTTGTTTCTTGGAGATGTTTTTCCAAGAGCATAATGTAC
ATTAAAGTCTTCGAGTTGAGACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5753

MAAVQMDPELAKRLFFEGATVVILNMPKGTEFGIDYNSWEVGPKFRGVKMIPPGIHFLHYSSVDKANPKEVGPRM
GFFLSLHQRLTVLRWSTLREEVDLSPAPSESEVEAMRANLQELDQFLGPYPYATLKKWISLTNFI SEATVEKLQP
ENRQICAFSDVLPVLSMKHTKDRVGQNLPRCGIECKSYQEGLARLPENKPRAGTEIRFSELPTQMFPEGATPAEI
TKHSMDSL SYALETVLNKQFPSSPDVLGELQFAFVCFLGNVYEAFEHWKRLNLLCRSEAAMMKHHTLYINLIS
ILYHQLGEIPADFFVDIVSQDNFLTSTLQVFFSSACSI AVDATLRKKA EKFAQHLTKKFRWDFAAEPEDCAPVVV
ELPEGIEMG

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FIGURE 5754

GGAAGCCCCACCCACCAGAAGCCAAGATGTCAGCAAGCGGGCCAAAGCCAAGACCACCAAGAAGCGGCCACAGC
GGGCCACATCCAATGTCTTCGCAATGTTTGACCAGTCCCAGATCCAGGAGTTTAAGGAGGCTTTCAACATGATTG
ACCAGAAACCGTGATGGCTTCATTGACAAGGAGGACCTGCACGACATGCTGGCCTCGCTGGGGAAGAACCCACAG
ACGAATACCTGGAGGGCATGATGAGCGAGGCCCCGGGGGCCATCAACTTCACCATGTTTCTCACCATGTTTGGGG
AGAAGCTGAACGGCACGGACCCCGAGGATGTGATTGCAACGCCTTTGCCTGCTTCGACGAGGAAGCCTCAGGTT
TCATCCATGAGGACCACCTCCGGGAGCTGCTCACCACCATGGGTGACCGCTTCACAGATGAGGAAGTGGACGAGA
TGTACCGGGAGGCACCCATTGATAAGAAAGGCAACTTCAACTACGTGGAGTTCACCCGCATCCTCAAACATGGCG
CCAAGGATAAAGACGACTAGGCCACCCAGCCCCCTGACACCCAGCCCCCGCCAGTCACCCCTCCCCGCACACA
CCCGTCCATACCAGCTCCCTGCCCATGACCCTCGCTCAGGGATCCCCCTTTGAGGGGTTAGGGTCCCAGTTCCCA
GTGGAAGAAACAGGCCAGGAGAAGTGCGTGCCGAGCTGAGGCAGATGTTCCACAGTGACCCAGAGCCCTGGGC
TATAGTCTCTGACCCCTCCAAGGAAAGACCACCTTCTGGGGACATGGGCTGGAGGGCAGGACCTAGAGGCACCAA
GGGAAGGCCCCATTCCGGGGCTGTTCCCCGAGGAGGAAGGGAAGGGGCTCTGTGTGCCCCCAGGAGGAAGAGGC
CCTGAGTCCTGGGATCAGACACCCCTTCACGTGTATCCCCACACAAATGCAAGCTCACCAAGGTCCCCCTCTCAGT
CCCCCTCCCTACACCCTGACCGGCCACTGCCGCACACCCACCCAGAGCACGCCACCCGCCATGGGAGTGTGCTCA
GGAGTCGCGGGCAGCGTGACATCTGTCCCAGAGGGGGCAGAATCTCCAATAGAGGACTGAGCACT

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FIGURE 5755

MSSKRAKAKTTKKRPQRATSNVFAMFDQSQIQEFKEAFNMIDQNRDGFIDKEDLHDMLASLGKNPTDEYLEGMMS
EAPGPINFMTMFLTMFGEKLNKGTDPEDVIRNAFACFDEEASGF IHEDHLRELLTTMGDRFTDEEVDEMYREAPIDK
KGNFNYVEFTRILKHGAKDKDD

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FIGURE 5756

GCGGGGGGTGGGCGCAGCTCGTCGCGCTCCGCACAAAGTTTGTCTTCTCCCTCCGGGCGGGTGGGGGAGGGCGCA
GAGGGCGCGGGGGGAGGAGAGGGGATCTGACGTGAGGCCGCGAGGTGCTTTCCAGCCGCGAGCTGTCAGGCCGAG
TGTCAGGCCGGGCAGGTTTACCCAAGGTCCAGCCTAGCCCCCTAGGCACCATGTGCGACAGTGATCTAGGTGAGGA
CGAAGGCCTCCTCTCCCTGGCGGGCAAAAGGAAGCGCAGGGGGAACCTGCCCAAGGAGTCGGTGAAGATCCTCCG
GGACTGGCTGTACTTGACCCGCTACAACGCTACCCCTCAGAGCAGGAGAAGCTGAGCCTTTCTGGACAGACCAA
CCTGTGAGTGTGCAAAATATGTAATGTTTCAATGCCCCGGCGGGGCTTCTCCCAGACATGCTTCGGAAGGA
TGGCAAAGACCCTAATCAGTTTACCATTTCGCCGCGCGGGGGTAAGGCCTCAGATGTGGCCCTCCCCGTGGCAG
CAGCCCCCTCAGTGCTGGCTGTGTCTGTCCCAGCCCCCACCAATGTGCTCTCCCTGTCTGTGTGCTCCATGCCGCT
TCACTCAGGCCAGGGGAAAAGCCAGCAGCCCCCTTTCCACGTGGGGAGCTGGAGTCTCCCAAGCCCCCTGGTGAC
CCCTGGTAGCACACTTACTCTGCTGACCAGGGCTGAGGCTGGAAGCCCCACAGGTGGACTCTTCAACAGCCACC
ACCCACACCCCCAGAGCAGGACAAAGAGGACTTCAGCAGCTTCCAGCTGCTGGTGGAGGTGGCGCTACAGAGGGC
TGCTGAGATGGAGCTCAGAAGCAGCAGGACCCATCACTCCCATTAAGTGCACACTCCCATCCCTTTAGTCTCTGA
AAATCCCCAGTAGGCATCTGCCAAGAAGGGTGCTGAAGGCTCCAGCCAGCTGTCTGGGTTTCCGTTTTGGTTCC
CTTTCATACAGAGGGTTTCTATGGATCACTGCCAAACATTGGGATCATCTCCTCTGTCCAGAGGTCTTCAACAG
GAAGATGCCAGCTGGCACCCTGCACTGTGATGGGGGCCCTCTCCTCTGTGACTCTGCCGTTTCTCCAGGCCCTC
CGCTCAGTGATGAGACCAAGAGATCGGAGACAAGCATGGTGCTGCTGCTTCTGTGCTTCTCCAGAAAATCCCTG
GGACACCTTTGTTCAGCCTGGTTTCTTGGGCTGGGCTCAGGAAAGCTGCCAAATTCAGTCCATATGTTGGGTCCA
AGCTGCCCTGTGCTGTCTGTCAAGCCAGGTGTGGACATTCCAAGTTCATATGCGTGAACAAAAGAAAAGAGG
AACCCAGTGGATGTAACAGAACCGACTCCAGTTGAATGTTTAGATTTTGTCTAACTGTTTTCTTTTTCCCTTTT
TTGCTGTGGTTTGCATTACGGCAGTAGTTAGTCCAGGTGAGGGAACGAGAGTGCATGCATGATAGCGTTCTG
GTGAGCTGGGAAGGACCCACCCTGCCACTGAGGATGTTTTTGAAGAAAGGAATATTTTTATCTTGGGGACCAG
CTAAGTCTCTGCAGTAGTGTGAAATTCAAATGGTTGTTTTATCATTGGTTTGGTTTACCAAAAAAAGGCAGGG
AAAAAAAAAAAAAAAAACAACCGTATGAGCGCATTGGCTTGTCTGCCGAGGCACAGAAGGGTAGAAAGCCACAGCAG
GGGGCAGTCCAGCAGACTCTGACTCAACTTTCTAGGCACCTAGCAGAGAAAGATAAGATCAAAAGGTGTTTGGTT
TTCTTTTTTAATTTTTATTGTAGTTTTTTTTGGGTGGGTGGGGGAAGTAAACTAGACTGAAGCGATGGATTTTTTT
TTCTTTTTTTTCTTTAGTGTTTTTTCCCTTTGTTCTTGAACACTTTTGCCCTGCAGCCTAGTTTTGAATCTTTT
AGCAACTTGGATTAGAGGGGCCATATGTGAGAAGCTCCAGCACCTCCTACTTGGGAGAAAAGTAGCCATCTG
CTGGTCAGGAAGTCTCCAGAGAGGCAGCTTTTTCCACAATGGTGGCAGGAACTTTGGGGAAGCAGGAATGGT
GTCCACTGCTGCGGAGGAAGTGCCTTCAGAGAAGGTGGGGCTGGAAGGGTTAGAAGCCTCTAGCTGGGATTG
TCTTTGTTTTACCTTTCTTTAAATTAGAATTACAGAAGCCCCCTGCCAGTGAACAGATAACGATTGGTCTTATGC
TCTCCCTTTCCCCCATTTTTCTTTTGTGCTGTTTTGTTTTTGTGTTTTTGTGTTTGTGTTTTTTGAGACA
GAGTCATGCTCTGTACCCGGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGTAACCTCCGCCCTCCCGGGTTC
AAGCAATTATTTGCCTCAGCCTCCCGAGTAGCTGGGATTATAGGCACCCGCCACCATGTCTGGCTTTTAGTAGAG
ACGGGGTTTACCATCTTGGCCAGGCTGGTCTTGAACCTCTGACCTCGTGAGCCACCACGCCAGCCTCTTTTG
CTGTTTATTGCTGACAGTGTTCAACAATATGCCCCATCTTTATATATCCTAAGAAACACTAATCCTAGGTTATT
GCTAGCCAAAATATTTTTGTCTGAGTAGTGTCACTGGGCCAAAAGATAGATCAGGACGACAGCCTTTAGTTTTT
CTGAAATCACCAGGTGAGGCACAAGGAGAAAAGGTTCTGGATACTGACTAACTGGGTGGGTGGATCTAGCCAG
GAGAAAGACAGTAACATGTGTTCTGTACTTTCTGGGAAGATCCCTGAAGCCATCACAGAGGCTCCCCAATTCTG
AGTCGCCCATCTGTTGCTGTGGGAGTGTGAACGGATCGCTGAAGGAGAGGGAGCTTTGCTCTCTCTAGGTGGCA
AGTTTCTTGGGCTCTCTGTGTTGCTCCCTCTGGCTTCTTCTCCCGTGCCCTCTCCCCGTGTGCCAGGGGGA
TCAGGGATCCTCACCTCCTGAGGCCAGTGGGGAAGAATGAACATGGCTTCATCCAGGTTAACTGATGCTGCCA
TTTGGCCAGCCTCTTCCATCCAGCCCTGTCACTGAGCCAGGTCTGGTGCAACTGCTGCAGGATGCCTGTAGTA
GGGAAGTCTGGAAGTGTATTGGGCTGAGGTGGGATTTTCCCTCCCCACAGTGCAGTGAAGGAGGGTGGTGA
GGGAGCCATGCTGCTGAATTCTGGTTGGCATTTCCTCATTTATGTAAGGAGGGTGGTGGGTAGGGCAGACTCTGC
TTGGGTTTGGTTGTAAGATAAACCTGGAGGAGAAGCAGTGTGCCATTGAATTATTTGAGCAAAAAGTACTGT
AAATAACTTTTTTGTCTTTTGTCAAATAAAATTTTTTTTTTGTTTTTTAAGCAG

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FIGURE 5757

AGAGTTTCGGAGGCGGTGACCGTGACGTAGAAAGGTGGAGACCGCTTCACCCTGATCAGGGAGTATCGGCTGCGGG
TGCGCAAGGCGTCCAGGAGTGACCTGGGGCTGTGGAGAGCGACCCGTGGCCTTGIGTTTTAGAGTTTTACCACCTA
GGATGACTTCAGTGACTAGATCAGAGATCATAGATGAAAAAGGACCAGTGATGTCTAAGACTCATGATCATCAAT
TGAATCAAGTCTCAGTCCGTGTGGAAGTGTTTGCTAAAAACAATCTGCCAGTTATCAAGACAGGAGGCAATCCTGG
CGGCGAGCAAGTATGAAAGAAACGAACCGGCGGAAGTCGCTGCATCCCATTCACCAGGGCATCACAGAGCTCAGC
CGGTCTATCAGTGTCGATTTAGCAGAAAGCAAACGGCTTGGCTGTCTCCTGCTTTCCAGTTTCCAGTTCTCTATT
CAGAACTTGAACCTTTCCCTAAGGGACACTAAGGGCTTCAGTCTTGAAAGTTTTAGAGCCAAAGCATCTTCTCTT
TCTGAAGAATTGAAACATTTTGCAGACGGACTGGAACTGATGGAACTCTACAAAAATGTTTTGAAGATTCAAAT
GGAAAAGCATCAGATTTTTCTTTGGAAGCATCTGTGGCTGAGATGAAGGAATACATAACAAAGTTTTCTTTAGAA
CGTCAGACTTGGGATCAGCTCTTGCTTCACTACCAGCAGGAGGCTAAAGAGATATTGTCCAGAGGATCAACTGAG
GCCAAAATTACTGAGGTCAAAGTGGAACCTATGACATATCTTGGGTCTTCTCAGAATGAAGTTCTTAATACAAA
CCTGACTACCAGAAAAATTACAGAACCAGAGCAAAGTCTTTGACTGTATGGAGTTGGTGATGGATGAAGTGAAG
GATCAGTGAAACAGCTGCAGGCCCTTATGGATGAAAGTACCCAGTGCTTCCAGAAGGTGTCAGTACAGCTCGGAA
AGAGAAGCATGCAACAATTAGATCCCTCACCAGCTCGAAAACTGTTGAAGCTTCAGCTACAGAACCCACCTGCCA
TACATGGATCTGGATCTGGATCTTGTGAGAGTTTCTGCCACAAGGTGCCCAAGAGGAGAGGAA
TGGGAAGAGTGCCCCAGCACGTGGTGACTGCGTGATTTCTGCTCGTTGCCTTTGAAGATAACTGGCAGGACTGAC
TGTAAGAACTTTGACTTTTTTCAAAAAGTGATGGAATTTGTACATCCAAATGAATATTGTATAGACAATTTTCC
CAGGAATGTGCAAAATGCTTGAAAGTTCAAACCTCTTTTTTGAAATGATCTTCAGATCCAGTGGCCCATTCTTTT
ATCTTTATCCTGTGAAGGTGTTTTTCAGGTTTGAACAATCCAAAAATCATTTAGGACCAAGTCTAAGGAAACA
TTTTAGTGGCCAAGTTGGATTCCGATTGTAAAGGAATGATACTAATTTTCTAGCATGGCTCTGAAGGTGATTTTA
GGTAGAAGAGTTTTGAGGCTGGGCGCAATGGCTCACGCCTGTAATCCTAGCATTTTGGGTGACTGAGGCGGGTGG
ATTGCTTGAGCCAGAAAGTTGAAGACCAGCTGAGAAATAAGGTGAAACCCTGTCTACAAAAAATACAAAAGTT
AGCTGGGTGTGGTGGCGTGTGCCTGTAGTGTAGCTACTCAGAAGGCTGAGGTGGGAGGATTGTTTGAGCCCAGG
AGGTTGAGGCTGCAGTGAGTTCTAATTGCGCCACTGCACTCCAGCCTGAGCGACAGAGTGAGACACTGTCTTAAA
AAAAATTAAAAATTGT

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FIGURE 5758

MIINWNQVSVLWKCLLKQSASYQDRRQSWRRASMKETNRRKSLHPIHQGITELSRISVDLAESKRLGCLLLSSF
QFSIQKLEPFLRDTKGFSLESFRAKASSLSEELKHFADGLETDGTLQKCFEDSNGKASDFSLEASVAEMKEYITK
FSLERQTDQQLLLHYQQEAKEILSRGSTEAKITEVKVEPMTYLGSSQNEVLNTPDYQKNYRTRAKSLTVWSW

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FIGURE 5759

AGCGTTGCGAGACGGTCCGTTCCAAGTGGGCCTGGGCGCGGGGGAGAGGCGGGTCTGTCCTCGGGAACCTGCAAGG
CCCTGTGAGCGGGAGGACTGGGATCCCCGGCCGCGGCTGCTGGAAGCGTCGAAGCTCAGCGGGGCCGCGGACACTG
ACCTGTGCTTAGAACTCATCTGGCCCCGAGAGCCTGCCGCGAGTCCCTGGCGTCCCCTGTGGCGGGCTCTTGGA
GCCACTTTCCCAGCGGAAGTCAGCCCCGCGGCTCGGACTCCGGCGGGACCTGCTCGGAGGAATGGCGCCGCCGGG
TTCAAGCACTGTCTTCTGTGGCCCTGACAATCATAGCCAGCACCTGGGCTCTGACGCCCACTCACTACCTCAC
CAAGCATGACGTGGAGAGACTAAAAGCCTCGCTGGATCGCCCTTTCACAAATTTGGAATCTGCCTTCTACTCCAT
CGTGGGACTCAGCAGCCTTGGTGCTCAGGTGCCAGATGCAAAGAAAGCATGTACCTACATCAGATCTAACCTTGA
TCCCAGCAATGTGGATTCCCTCTTCTACGCTGCCAGGCCAGCCAGGCCCTCTCAGGATGTGAGATCTCTATTTTC
AAATGAGACCAAAGATCTGCTTCTGGCAGCTGTCTAGTGAGGACTCATCTGTTACCCAGATCTACCATGCAGTTGC
AGCTCTAAGTGGCTTTGGCCTTCCCTTGGCATCCCAAGAAGCACTCAGTGCCCTTACTGCTCGTCTCAGCAAGGA
GGAGACTGTGCTGGCAACAGTCCAGGCTCTGCAGACAGCATCCACCTGTCCCAGCAGGCTGACCTGAGGAGCAT
CGTGGAGGAGATTGAGGACCTTGTGCTCGCCTGGATGAACTCGGGGGCGTGTATCTCCAGTTTGAAGAAGGACT
GGAAACAACAGCGTTATTTGTGGCTGCCACCTACAAGCTCATGGATCATGTGGGGACTGAGCCATCCATTAAAGGA
GGATCAGGTTCATCCAGCTGATGAACGCGATCTTCAGCAAGAAGAACTTTGAGTCCCTCTCCGAAGCCTTCAGCGT
GGCCTCTGCAGCTGCTGTGCTCTCGCATAATCGCTACCACGTGCCAGTTGTGGTTGTGCCTGAGGGCTCTGCTTC
CGACACTCATGAACAGGCTATCTTGCGGTTGCAAGTCACCAATGTTCTGTCTCAGCCTCTGACTCAGGCCACTGT
TAACTAGAACATGCTAAATCTGTTGCTTCCAGAGCCACTGTCTCCAGAAGACATCCTTCAACCCCTGTAGGGGA
TGTTTTTGAATAAATTTTCATGAACGTCAAATTTTCCAGTGGTTATTATGACTTCCTTGTGCGAAGTTGAAGGTGA
CAACCGGTATATTGCAAATACCGTAGAGCTCAGAGTCAAGATCTCCACTGAAGTTGGCATCACAATGTTGATCT
TTCCACCGTGGATAAGGATCAGAGCATTGCACCCAAAACCTACCCGGGTGACATACCCAGCCAAAGCCAAGGGCAC
ATTCATCGCAGACAGCCACCAGAACTTCGCCTTGTTCTTCCAGCTGGTAGATGTGAACACTGGTGCTGAACTCAC
TCCTCACCAGACATTTGTCCGACTCCATAACCAGAAGACTGGCCAGGAAGTGGTGTGTTGTTGCCGAGCCAGACAA
CAAGAACGTGTACAAGTTTGAAGTGGATACCTCTGAAAGAAAGATTGAATTTGACTCTGCCTCTGGCACCTACAC
TCTCTACTTAATCATTGGAGATGCCACTTTGAAGAACCCAATCCTCTGGAATGTGGCTGATGTGGTCAAGTT
CCCTGAGGAAGAAGCTCCCTCGACTGTCTTGTCCAGAACCCTTTTCACTCCAAAACAGGAAATTCAGCACCTGTT
CCGCGAGCCTGAGAAGAGGGCCCCCACCCTGGTGTCCAATACATTCAGTGCCTGATCCTCTCGCCGTTGCTTCT
GCTCTTCGCTCTGTGGATCCGGATTGGTGCCAATGTCTCCAACCTTCACTTTTGCTCCTAGCACGATTATATTTCA
CCTGGGACATGCAGCTATGCTGGGACTCATGTATGTCTACTGGACTCAGCTCAACATGTTCCAGACCTTGAAGTA
CCTGGCCATCCTGGGCAGTGTGACGTTTCTGGCTGGCAATCGGATGCTGGCCAGCAGGCAGTCAAGAGAACAGC
ACATTAGTTCCAGAAGAAAGATGGAAATCTGAAAACCTGAATGTCAAGAAAAGGAGTCAAGAACAATTCACAGTA
TGAGAAGAAAAATGGAAAAAAAACCTTTATTTAAAAAAGAAAAAAGTCCAGATTGTAGTTATACTTTTGCTTGT
TTTTTCAGTTTCCCAACACACAGCAGATACCTGGTGAGCTCAGATAGTCTCTTCTCTGACACTGTGTAAGAAGC
TGTGAATATTCTAACTTACCCAGATGTTGCTTTTGAAAAGTTGAAATGTGTAATTGTTTTGGAATAAAGAGGGT
AACAAATAGG

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[illegible]

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FIGURE 5761

MYCLQWLLPVLLIPKPLNPALWF¹SHSMFMGFYLLSFLLERK²PCTICALVFLAALFLICYSCWGNCFLYHCSDSPL
PESAHDPGVVGT

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FIGURE 5762

TAGGTGGCGGGCGGGTACTTAAGGCGCGGCCACCGCGGCTGCGGCAGTGCGCCCAACAGCGGACTCCGAGACCAG
CGGATCTCGGCAAACCCCTCTTTCGACGACCCACCTACCATTCTTGGAACCATGGCGGCAGTGGCGGCGGCCTC
GGCTGAACTGCTCATCATCGGCTGGTACATCTTCCGCGTGCTGCTGCAGGTGTTCCCTGGAATGCTGCATTTACTG
GGTAGGATTTCGCTTTTCGAAATCCTCCAGGGACACAGCCCATTCGAGAGAAGTGAGGTGTTTCAGGTACTCCCTGCA
GAAGCTGGCATAACACGGTGTGCGCGGACCGGGCGGCAGGTGTTGGGGGAGCGCAGGCAGCGAGCCCCAACTGAGG
CCCCAGCTCCCAGCCCTGGGCGGCCGTATCATCAGGTGCTCCTGTGCATCTCGGCCAGCACGGGAGCCAGTGCCG
CGCAGGAATGTGGGGTCCCCTGTGTTCCCTCGCCAGAGGAGCACTTGGCAAGGTCAGTGAGGGGCCAGTAGACCC
CCGGAGAAGCAGTACCGACAATGACGAAGATACCAGATCCCTTCCCAACCCCTTTGCACCGGTCCCCTAAGGGG
CAGGGTCGAGAGAGGAGGGGGGATAGGGGGAGCAGACCCCTGAGATCTGGGCATAGGCACCGCATTCTGATCTGG
ACAAAGTCGGGACAGCACCATCCCAGCCCCGAAGCCAGGGCCATGCCAGCAGGCCCCACCATGGAAATCAAAACA
CCGCACCAGCCAGCAGAATGGACATTCTGACATCGCCAGCCGACGCCCTGAATCTTGGTGCAGCACCACCGCGT
GCCTGTGTGGCGGGACTGGAGGGCACAGTTGAGGAAGGAGGGTGGTTAAGAAATACAGTGGGGCCCTCTCGCTGT
CCCTTGCCCAGGGCACTTGCAATCCAGCCTCGCTGCATTTGCTCTCTCGATTCCCCTTTCCTCCTCACTGCCTCC
CAAGCCCACCCTACTCCAAAATAATGTGTCACTTGATTTGGAACATTTCAAGCAGTAAAAGTAAATGAATCCCAC
CTTTACTAAACACTTTCTCTGAACCCCCCTTGCCCTCACTGATCTTGCTTTTCCCTGGTCTCATGCAGTTGTG
GTCAATATTGTGGTAATCGCTAATTGTACTGATTGTTAAGTGTGCATTAGTTGTGTCTCCCAGCTAGATTGTA
AGCTCCTGGAGGACAGGGACCACCTCTACAAAAATAAAAAAGTACCTCCCCTGTCTCGCACAGTGTCCCAGGA
CCCTGCGGTGCAGTAGAGGCGCACC

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FIGURE 5763

GGGGAXGGGGGGCAGTGTGGCTGGAGCCGCGGCTGACGGGCCCCGCGGTCTGGGCGTGAGTGCAGGGAAGTGGAGT
ATTTGCTGGGCCGGGTACCAATGACGCTGGGCGAACTTCTGAGCTACCAGCCCAATAGGGGCACAAAACGTCCCCG
GGATGATGAAGAGGAGGAGCAGAAGATGCGTCGGAAACAACTGGTACTCGAGAACGCGGCCGCTATCGGGAAGA
AGAAATGACTGTGGTGGAGGAAGCGGATGATGACAAAAAAGGCTGCTGCAGATTATTGACAGAGATGGGGAAGA
GGAAGAGGAAGAGGAGGCCATTGGATGAAAGCTCAGTGAAGAAAATGATCCTCACATTTGAAAAGAGATCATA
TAAAAACCAAGAAATTGCGGATTAAGTTTCCAGACAATCCAGAGAAGTTTCATGGAATCCGAGCTGGACCTAAATGA
CATCATTCAGGAGATGCACGTGGTGGCCACCATGCCAGACCTGTACCACCTTCTGGTGGAGCTGAAATGCTGTACA
GTCGCTTCTCGGCTTGCTCGGACACGATAATACAGATGTGTCCATAGCTGTGGTTCGATTTGCTTCAGGAATTAAC
AGATATAGACACCCTCCATGAGAGTGAAGAGGGAGCAGAAGTGCTCATCGATGCTCTGGTGGATGGGCAGGTGGT
AGCACTGCTGGTACAGAACTCTGGAGCGCCTGGATGAGTCTGTGAAAGAGGAGGCAGATGGCGTCCACAACACTCT
GGCTATTGTGGAAAACATGGCTGAGTTCGGCCTGAGATGTGTACAGAGGGTGCCAGCAGGGTCTTCTACAGTG
GCTGTTGAAGAGGCTGAAGGCAAAGATGCCTTTTGATGCCAACAACTGTATTGCAGTGAAGTCTGGCCATATT
GCTCCAGGACAATGATGAAAACAGGGAATTGCTTGGGGAGCTGGATGGAATCGATGTGCTTCTTCAGCAGTTATC
CGTGTTTAAAAGACACAATCCCAGCACGGCTGAGGAGCAGGAGATGATGGAGAATCTGTTTGATTCCCTCTGCTC
CTGTCTAATGCTTAGTTCCAATCGTGAGCGCTTCTGAAGGGCGAGGGTCTTCAGCTGATGAATCTCATGCTCAG
GGAAAAGAAGATCTCCCGAGCAGTGCCCTGAAAGTGCTGGACCATGCCATGATTGGCCCCGAAGGCACAGACAA
CTGCCATAAGTTTGTGACATTCTTGGCTTACGAACCATCTTTCCCTCTTTATGAAATCTCCAGGAAGATCAA
GAAAGTGGGAACCACTGAGAAGGAACATGAAGAGCATGTCTGTTTCGATCCTGGCTTCCCTCCTGCGGAACCTGAG
AGGGCAGCAGCGGACCCGGCTTCTGAATAAATTCACTGAAAATGACAGTGAGAAGGTTGACAGACTAATGGAGTT
GCATTTTAAATATCTGGGTGCAATGCAGGTGGCGGACAAGAAGATTGAAGGGGAAAAACACGACATGGTCCGGCG
AGGAGAGATCATCGACAATGACACCGAGGAGGAGTTCTACCTCCGGCGCCTGGATGCGGGGCTCTTTGTTCTCCA
GCACATCTGCTACATCATGGCCGAGATCTGCAATGCCAATGTCCCCAGATTGCCAGAGGGTTCACCAGATCCT
AAACATGCGAGGAAGCTCCATCAAAATTGTCAGGCATATCATCAAGGAGTATGCAGAGAACATCGGGGACGGCCG
GAGCCCGGAGTTCCGGGAGAACGAGCAAAAGCGCATCCTGGGCTTGCTGGAGAACTCTTAGAGGCACCTTGGCCC
TGCGCATCATGGACTCTCTCAGCTTCCCTCCCAGGATCAGTTTCTACACAACCTCTGTGTGGCTTTTGGACAAATT
AAAGCTAGTTTTTGGTAAAAA

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FIGURE 5764

MDVGELLSYQPNRGTKRPRDDEEEEQKMRRKQTGTRERGRYREEEMTVVEEADDDKKRLLQIIDRDGEEEEEEEE
PLDESSVKMILTFEKRSYKNQELRIKFPDNPEKFMESELDLNDIIQEMHV VATMPDLYHLLVELNAVQSLLGLL
GHDNTDVSI AVVDLLQELTDIDTLHESEEGA EVLIDALVDGQVVALLVQNLERLDES VKEEADGVHNTLAIVENM
AEFRPEMCTEGAQQG LLQWLLKRLKAKMPFDANKLYCSEVLAILLQDNDENRELLGELDGIDVLLQQLSVFKRHN
PSTAE EQEMMENLFDSLC SCLMLSSNRERFLKGEGLQLMNLMLREKKISRSSALKVLDHAMIGPEGTDNCHKFVD
ILGLRTIFPLFMKSPRKIKKVGTTEKEHEEHVCSILASLLRNLRGQQRTRLLNKFTENDSEKVDRLMELHFKYLG
AMQVADKKIEGEKHMVRRGEIIDNDTEEEFYLRRLDAGLFVLQHICYIMAEICNANVPQIRQRVHQILNMRGSS
IKIVRHIIKEYAENIGDRSPEFRENEQKRILGLENF

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FIGURE 5765

CCTCCCTCGGGCTCCGGTCCCCTGGGTGAGCCCCAGCGCTGGCGGCGTGGGCCCGGGACTGGGCAATGGGTGGCC
TCCCAGGTCGCCGCCCTTCCCGCGGGGCCCCGCCCCGCCCCGCCCCAAAGCGGGCTATAAGTTAGCGCCGCTCTC
CGCCTCGGCAGTGCCAGCCGCCAGTGGTCGCACTTGGAGGGTCTCGCCGCCAGTGGAAAGGAGCCACCGCCCCCGC
CCGACCATGGCCGAGGAGCTGGTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACG
GCCGACCTGTGCCGGGAGAAGCTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGC
AACTACGAGGCCAGTGTAGACAGTCTACCTTCAGTGTGCTGACCGGCCAGCCCCCTAGCCAGGAGGCCGGGACC
AAGGCCCCGTTTCCACTAAGAGATGCTGTGGAGGAGGGTGAAGTGGACAGCCACCGTGGTGGACCAGCAAGACTGC
ACCTCTCGCTGCAGCTCACCACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACT
GGCTACCAGGGATCCAGCTTTGTGCTGGGCCACTTCATTTTGTCTTTCAACGCCTGGTGCCAGCGGATGCTGTG
TACCTGGACTCGGAAGAGGAGCGGCAGGAGTATGTCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAG
TTCATCAAGAACATACCTTGAATTTTGGGCAGTTTGAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGAT
GTCAACCCCAAGTTCTTGAAGAACGCCGGCCGTGACTGCTCCCGCCGAGCAGCCCCGTCTACGTGGGCCGGGTG
GTGAGTGGCATGGTCAACTGCAACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACACTACGGGGACGGC
GTCAGCCCCATGCTCTGGATCGGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCAGGCTGCCAGCGCGTCAAG
TATGGCCAGTGCTGGGTCTTCGCCGCCGTGGCCTGCACAGTGTGAGGTGCCTGGGCATCCCTACCCGCGTCTGTG
ACCAACTACAACCTCGGCCCATGACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATC
CAGGGTGACAAGAGCGAGATGATCTGGAACCTTCACTGCTGGGTGGAGTCTGGATGACCAGGCCGGACCTGCAG
CCGGGTACGAGGGCTGGCAGGCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGGACGTACTGCTGTGGCCCA
GTTCAGTTCTGTGCCATCAAGGAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAAT
GCCGACGTGGTAGACTGGATCCAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGG
CTGAAGATCAGCACTAAGAGCGTGGGCCGAGACGAGCGGGAGGATATCACCACACCTACAAATACCCAGAGGGG
TCCTCAGAGGAGAGGGAGGCCCTTACAAGGGCGAACCACCTGAACAACTGGCCGAGAAGGAGGAGACAGGGATG
GCCATGCGGATCCGTGTGGGCCAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCACAAC
ACCGCTGAGGAGTACGTCTGCCGCTCTGCTGTGCGCCGACCGTCAGCTACAATGGGATCTTGGGGCCCCGAG
TGTGGCACCAAGTACCTGTCTCAACCTCAACCTGGAGCCTTTCTCTGAGAAGAGCGTTCTCTTTGCATCCTCTAT
GAGAAATACCGTGACTGCCTTACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGAGGCCAGTTATCAAC
AGCTACCTGCTGGCTGAGAGGGACCTCTACCTGGAGAATCAGAAATCAAGATCCGATCCTTGGGGAGCCCCAAG
CAGAAACGCAAGCTGGTGGCTGAGGTGTCCCTGCAGAACCCTGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACT
GTGGAGGGGGCCGGCCTGACTGAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGAGGACAGGGGAGGAAGTT
AAGGTGAGAATGGACCTGCTGCCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTCGAGAGCGACAAGCTG
AAGGCTGTGAAGGGCTTCCGGAATGTATCATATTGGCCCCGCTAAGGGACCCCTGCTCCAGCCTGCTGAGAGCC
CCCACCTTGATCCCAATCCTTATCCCAAGCTAGTGAGCAAAATATGCCCCCTTCTGGGGCCCCAGACCCAGGGCA
GGGTGGGCAGCCTATGGGGGCTCTCGGAAATGGAATGTGCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTG
CCCCTACCCCCCTTTGCTGTGAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTTGGCTGACTGGGGC
TGGGGTGAGAGAGGAAAGACCTACATTCCTCTCTGCCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCAT
ATTGTTTGATCTACTTCATAGCTCCTTGGAGCAGGCAAAAAGGGACAGCATGCCCCCTGGCTGGATCAGGGAAT
CCAGCTCCCTAGACTGCATCCCGTACCTCTTCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACAGCCAGAG
CTGGGTGGGGACAGTGATAGGCCCAAGGTCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAA
CCTCACCATTGTGAAGCACCTACTATGTGCTGGGTGCCCTCCACACTTGCTGGGGCTCACGGGGCCTCCAACCCA
TTTAATCACCATGGGAAACTGTTGTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGC
CCCCTCCACACCAGTGGCCTCGTGGTTATTAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCCT
CTGACTCTGAGTCCACTGCTCCATTTATAACCCAGCCTGACCTGAGACTGTGCGAGAGGCTGTCTGGGGCCTTT
ATCAAAAAAAGACTCAGCCAAGACAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGT
TCAGGTCCCACGTCTGGCCAGGCACTGCCTTCTCCTCTCTGGGCCTTTGTTTCTTGTGGTTCAGAGGAGTGATT
GAACCAGCTCATCTCCAAGGATCCTCTCCACTCCATGTTTGAAT

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FIGURE 5766A

CGCTCCTCCGAGATGACGCCGGGGTCGGTGCCCCGGGGCTGCCCTATCCCCTGGCTCCAGGGCTAGGCGGGACCG
AGGGCTGCCCCAGACAGACGGACCCGCGGACCCACAGACCCCGCGCCAGGAGAGGCCGCGCCGCCGCCGCT
GGCAGCCCGTCACCATGGTACCCTCCATCCCTCGACACAGCCATCCAGCATGCCCTGGCGGGCCTCTATCCTCCT
TTCGAGGCCACAGACCCACCGTCTGGGTGAGGTGTTCCGTCTCCTGGACTCTGGCTTCCAGGGGGATGGGCTG
AGCTTCCTTCTGGATTCTCTGATCCCTGCCAAGCGCCTGTGTGAGCAAGTGCAGAGAAGCAGCCTGTGCTCCCTAC
TCACACTGCCTCTTCTTACACGAGGGCTGGCCACTCTGTCTGAGGGATGAAGTTGTGGTCCACTTGGCACCCCTC
AACCTCTCTTATTGCGCCAGGGTGACTTCTACCTCCAAGTGGAGCCCCAGGAGGAGCAGTCTGTCTGCATCATG

ATCAAATGCCTCTCCCTGGACCTCTGCACAGTGGACAAGAAGCCTGTTCCAGAGCCAGCCTACCCTATACCTTTTC
ACCCAAGAAATGGCTGGAGGCCATCAACAGTGACTTTGAGGGAAATCCCCTACACAAGTCTTGGTAGCATCAGAA
AATGGGATTGCCCCGTGTGCCTTGGACCAAGATAACCAGCCCAGAGTTTGTGGATGACAGACCCCAAGTAGTGAAT
GCCCTCTGCCAAGCCTGGGGGGCCCTTCCATTAGAGGCACTGGATTTGAGCAGCCCTCAAGAGTTGCACCAGGCC
AGCTCCCCAGACAACCAGGTGCTTCCTGCCCAGAGTTTGGCCAAGGGTAAGGGCAGGACATATGGGAGCAAGTAT
CCAGGACTCATCAAGGTGGAGCAAGCCCGGTGTGGGGAGGTGGCTTTCAGGATGGACGAGGTGGTCAGCCAGGAC
TTCGAGGGAGACTATGTGGCTCTCCTAGGCTTTTCCCAAGAGAGCAGAGGAGAGTCTCCCAAGTAGGGAGGCAGGC
ACATCCAGTGGGTGTACTTCTGGGGCACTAGAGGAGATAGCTGGAACCTAAGGAACTCCCTTATTTCAAAAAGATA
CTGCCTCTCTCAGAGGCCAATGAAGGACCTTCTTGGGAAATCGGGCTTGCACAAAGCCAGAAAGCTCTGAGGAG
AGGCCCTATAATTTGGGCTTCAGGAGAAAGGTCAATCTTAAAGCACCCACCCACAAGTCTGAGAAAGGCCGCCAA
GGCTCCTACATGAATGTCTTGGAGACGCACTGGACTGTGCCTCTGGTCTCAGGGCAGGTGTCTCACAAGAGCCA
GCTGCCTCCCAAGATGCAGGGACCTCTAGGAAACCCAGAGAATATGGTGCAGCTCAGGCCTGGACCAAGACAAGCC
TCTCTCCCCGCTGTCCCCAGCTTCTCCTGCAGCTGCAGCCTCTGAAACAAAGATAGAGGTGAAGACCAAGAG
AGAAATGGGAGACTTCCCAAGCCATGCCCTGCCCTAGCAGAAACACCTCCTCCCCCTGAGCCCCCACTCCTGGG
CTCAAATTCTCATTCTTGGAGGGCAGAGGCAACCTCTGTGACCCCGAGAAAGCCTCACTCCAGCACAATGGG
CCCTGGAAAGTCTGTGTTCCCTCTACTCTCTAAACCAACCGAGCCAAATCTTGGGAAAGCTGGAACAAGT
CAGACCAAAACATCTGGCCAGCCACTGCCCCAGCCCACTGACTGAGGAAAAGGCTGCCTTGCCAGAAGCTTCT
GCAGGCTCCCCAGAAAGAGGCCCCACCCTGGAGGAGGAGCCCCAGGGCCTGAGCCAGGATTGGGGCTCTAGGT
GTCAAGGTTTTTCCGCTCCAGGATAGCATGCCCTGCCAGGTGGCGGGACAGGGCCGGGCGGCCCTGTCTTGGTG
TCAACTACAGAGGGGGCCTGGGAGGCACCATGGTGCACAGTTTCAGAGGTACCAAGCTACTGTCTACCTGTGT
ACCATCCCCAGGCCTGAAGATAAAGCCAAGGGGCTGGCGGTCTCTGATTGACGCCAGGAGACAGCCCCACAGCCC
GGTCTGGTCAGCGCCCTGCAGGCCACCCAGGCTCAGGTCCCAGCCTCTATCCGGGCTATTCTCTTCTGGGGGAG
AAGGAGGCGGCTCTCCAGCTGCAGACATTACCTGACGTCCAGGTGGAGGTGCTGACCTCATTGAAGGCCCTCAGC
CACCATGTGGACCCAGCCAGCTGCCCGCAGTCTTGAAGGCCCTTCCCCTACTGCCACACCGAGTGGGTTTCA
TTCTTCCAGAAGCTGGACCTTTCTTGTGACCTCCACCAGGCTCTTCCCTGCTACAAGCTTCCATCGAGGAA
TTCGAGAAGGCCGACCCCTGGGGGATGCAGGAGGCTACCAGGTGCCTGAGCAAGTCCAAGGAGGCTGATGGAG
GCTGTGCTGAGGGACCCCGGCTACTGGGCTCCAGCGGGAAGGTGGAGCCACCCTGGCCAGGCTGCAGCATGAT
GCCAGCAGGCTGGACTTCAGCCCTGATGTGAGGAGCCATCTGGCTGCAGCCACTGCCTTGTACAGCCTTGTGGAC
GAGCAGCTTCATGTTCTGGTCACCGCTTCCAACAGCCTCCTGGGGAAGCTGGAGCTCCGTGTCCGCTGGGCCG
CTGGAAGCTGCCATTACCAGGTGAGCGACTGGATGGAGCAGGAAGGAAGCGGTGCCTGCAATCACTGACCCCC
AAGGATGGAAGTTTGGAGACAGTGGAGAAAGCCACGCAGAAATTTGAGAACTTCTTCTCCAGGCTGCAGCCAG
TACCGCCGAGGCCTGGAGCTGTCCAAGCAGGCCGCTCAGCTGGGAGCTACAGCCAGAGGGGCTGGGGAGGCGAGAA
CGTGCAGAGTTCCAGAGCTGGCAGCCTTTGCCTCTACCCAGCGGGCTTCCAGGCTGAGCTGACCCACTTTTAC
ATGGCGGCCGAGCGGCAACGCACGGACCTCGAGACGCTGCTCCACCTGCACCGCTTCTGCAAGAGGATGACCTGG
TTCCACATGGACTGTGAGGACCTGATGGCCAGCTCAGGCTGGACAAGACCTCAAGGGTCAGTCTGGGGACAG
CGCCGCTTCCACCGCTACCTGCAGCGACTGGCATCTGAGTTCCCTGCTGAGAAGCTCGCAGCCGTGGGGCTGCAG
GTGGCCTCCCTGAGCCGGGAGGCTGGGCCAGGAGCTATGGGAGGAGGCCCGGATCAGGCATGAGGAGATCCGG
ATGCTCCTGGAGAAGGCACTGACCCACAGCTCTTGGCCAGAGGCTCCAGCTGCTCACTCAGCGCGCCAGAACGA
AGAGGGGTGGCAGCCAAGGGCCAGGGTGTGAGTGTAGAGGTCACTTCCAAGGGGAGGTGGGATCAGCCTCCACTA
GACTCACTGGGCATGGACCAATTGCCAAAGTCTATTGGCCTCCTGGGCCCCCAAGAGGGGAACAGAACAGAACT
TTCCAGGCAGGCTCTCCACCCAGGAAGCTGGCCAGGCTGCAGAGGCTGAAGACGGCAAAGGCTCCACAGCTG

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FIGURE 5766B

CCTGACCC TGCCGCGAGCATT TGCTTGCCACCACCTTCTTCCGGCAGCAGCCCCCAGGCAGAGCCAGGTCCCT
CGCCTCACTGGGGGCAGCTTCTCCTCAGAGGGGACAGACTCACAGACATCCCTTGAGGACTCACCCAGACAAGT
CCCCTTGCCCTCCCTCTAGCTGAGAGGCCCTTTCAGTCGCACCAGCCTCCAGGAGCACTGGGCCAGGGCCAGCTG
GAGGGGTAGCTGGGAGCTCTGGTCAGTCCCAGTGAGACGTACCATGGAGCACTGGTTTTACATTCTGCCTCTGC
TGGGAGGATGAGAACTGTGACCTGCCCCCTGGCTCCAGAAAACCTCTGGAAGACCCGATCTTCACCCATGCAGAA
TAGCAAGAGTGGGCGTCAGAACAGGGCACAATAAATGGTGTGATTGGCTCCATCCCTCCAGGCTCTCATTGTGG
AAAGACCTGTCTGGCACAGACCCCTCCAGAGGTCTCGCTCGCAGGCAGGCAGACACCCACCTGCAGCTCAGGAACA
TACACAGCTCTCCCTCGGGTACGAGGGCCAGTGTTGCCCTTAGGCAGAACTCTCGGGGAGATTGGGGAGTGCTT
CCTTGCTTGGATTCCAGGAAAATGGACCCTGAGATGAGGATTTAAGGATCAGTGTGTTTGGTGCTGATCCAGGA
ACCTCTGCTGGGGGAGTAGGAGGCGAATCTGCAAAGGGAATAAAGAGTATGTTGTCAAGCAAATTTTCTTTTTT
TAATTTTAAACTTCATTGTATTTTATGTTTAGAGATGGGGCCTCACTACATTGCCAGGCTGGTCTCAAACCTC
CTGGGCTCAAGTGATCCTCTTGCTTGGCTGCCAAAGTGCTGGGATTGCCTTTTCCGCCACCCCCCGACCC
CACCAGAGACAGGGTCTCACTCTGGTGTCCAGGCTGGAGTGCAATCATAGCCTTAAATTCCTGGGTT
CAACCAATCCTCCACCTCAGCCTCCTAAGTAGCTGGGACTACAGTTATGCACCACCATGCTCAGCTTATTATTT
ATTTATTTTTGTAGACATGGGGTCTTGCTATGTTGCCAGGCAGGCTGATCTCAAGCTCAAGTGATCCTCTGGA
CTCAGCCTCCCAAAGTGCTGGGATTATACTGATGAGCCACTGTGCCACCCCTCATACAAATTTCCATGTTGGCA
ACTGTAGCTGGATCTTCTGGAGATCTCTGAAAGACAGCATGGAATCCTTGAACACCCCTGAGGCGTGAGGCAT
CCAGAGCATTATCTGCCAACCTCAGGAGCTGGCACTCGTAGACAGCACGCACAGCCAGCTCCATTGGTCTTGG
CAAAGAGAATTGCCTCCTGGAGCCAGAGGCCGCTTCTGTGCTTAGAAAGGAAGGACATGCTTCTGTGCTCCCT
GTCTCAAGGCCCTCTCAGCAGGCATGGGACCTTCATTCTCAAGTTCAAGGAACCTGTGGAACCTTGCTCTTG
TCCTCAGAGAGAATCCTCTCCGCTTAGAGGTCCCTCCTCTCTCACCTCCCCACCAAGCCTCCCTGAACTCA
ATGCTTCTGTCCCTTCCCTGCCCAACTTCCACTTCTCTATGCCAGCCTCTGTGGCCAGTACCATTGGGGTT
CTGTGGGCAGCTGGGTCTGCTGGTGGTGGGGACCGTGGGAAGGGCCCTATCTGTGCGATCTTAGATGGAGCATCCA
GAAGCCCCACCCCTTCATACTGGCCAGAGTGGCCCTGCCAGCGCCTCTCTGGAGTGTCATTAAGCTGAAAGTGTT
TGCTTTACCTCTGCAGTAGGATGCATTACTGAAGTGGCTCTTGGTCACCTAGCTCTGAATTTCTGGCTCCAG
AAAGAGGCTGTGGGGCACAGGTCCCCACAATGAGGCTGTGAAGGGGAGAGAGGCAGGCCTGGGCCAGGCACAGG
AGGACAACCTAGGGCTTCTCAGGAGCTGTCTCAGCCAAGAGTCACACACTTGATACCTAAAATGGCTTCAGGAATC
TTCCAAGACTGAAGACTTCCCCAGGTGTGGTCTAGGGCCTGCCTGCCTCAGAGCCATGAGCAGAGCCGGTCAAAA
GGCTTCTTAGGGAATCCTACCCAGACATTAAAATAGACTCTTGGTGTGGCAGGTGGCTGGAATCTGCGTTTGT
AGCCAAGTGCTCTTCTGTGTGACTCAGCAAAGTGGGGGTGCATTTGGGGAACACCCGGGGCTGGGGCTGAGTC
CTCCACCCAAAGCCAGGTTTGATTCTTGCAATCCCCCTCCCTGCCTTCCATCCAGACAGGCCCAAAGATGCAAGAG
GCGTTGATCAGCCATCTCCATCCATGCCTGTTGCCTCAGAGAGGGCCGACGGCTTTTAAAATGCTGTTGCCATA
GCAACAGCATCCAGCCAGTGGGTACCACAGGCAGGGAGCCACAGAACTGGGGTGCTGGGATGGAACTGACTTG
TGAGAGACCACAGCTACTGCTAGAAGGAAGGGGGGCAAAGCGGGCACAGGTAATCTAAGAATACTTGGGCGGGAG
GAGTCCCCAAGGTTACCTTGTGCATCCCTCTGTCCCCAGAAAGAACTGTACCCCAACAATCTCTCCCTCACTGC
ATCCCTGGGGAAGAAGGAATGCAGAAATGAAATGTCATAATGAGTAACAAATGTATAAAAATATCGAATAATAA
CAGCT

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FIGURE 5767

MIKCLSLDLCTVDKPVPEPAYPILFTQEWLEAINSDFEGNPLHNCLVASENGIAPVPWTKITSPEFVDDRPQVV
NALCQAWGPLPLEALDLSSPQELHQASSPDNQVLPQAQSLAKGKGRITYGSKYPGLIKVEQARCGEVAFRMDEVVSQ
DFEGDYVALLGFSQESRGESPSREAGTSSGCTSGALEEIIAGTKETPLFQKILPLSEANEGPSLGNRACTKPESSE
ERPYNLGFRRKVNLIKAPTHNSERPPQGSYMNVLLEDALDCASGLRAGVSQEPAAASKMQGPLGNPENMVQLRPGPRQ
ASSPRLSPASPAAAASETKIEVKTHERNRLPKPMPCPSRNTSSPEPPTPGLKFSFLRGQRQPSVTPEKASLQHN
GPWKVLCSLYSPKPNRAKSLGKAGTTQTKTSGPATAPSPLTEEKAALPEASAGSPERGPTLEEEPPGPEPRIGAL
GVKVFERSRIACLPGGRDRAGRPLLLVSTTEGAWEPWCTVSEVTKLLSYLCTIPRPEDKAKGLAVLIDARRQPPQ
PGLVSALQATQAQVPASIRAILFLGEKEAALQLQTLDPVQVEVLTSKALSHHVDPSQLPAVLEGPFPYCHTEWV
HFFQKLDPFLLADLHQASSLLQASIEEFKADPPGGMQEATRCLSKSKELMEAVLRDPGLLGLQREGGATLARLQH
DASRLDFSPDVRSHLAAATALYSLVDEQLHVLVTASNSLLGKLELRVRLGRLEAAIHQVSDWMEQEGRRCLQSLT
PKDGSLETVEKAHAEEFNFFLQAAAQYRRGLELSKQAAQLGATARGAGEAERAEPPELAFASTQRAFAELTHF
YMAAERQRTDLETLLHLHRFCKRMTWFMHDCQDLMAQLRLDKTSRVSPGDQRRHLHRYLQRLASEFFPAEKLAAVGL
QVASLSRAGLGQELWEEAIRHEEIRMLLEKALTHSSCPEAPAAHSARPERRGVAAKGQGVSEVTSKGRWDQPP
LDSLGMDDLPKSYWPPGPPRGEQNRTFQAGSPPEAGQAAEAEDGKGSCLKLPAREHLLATTFFRQQPFRQSQV
PRLTGGFSFSEGTDSQTSLEDSPTSLASL

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FIGURE 5768

AGGCCTTGAGGTTTTGGCAGCTCTGGAGGATGAGAGAGAACATGGCCAGGGGCCCTTGCAACGCGCCGAGATGGG
CGTCCCTGATGGTGCTGGTCGCCATAGGCACCGCCGTGACAGCGGCCGTCAACCTTGGCGTCGTGGTCAGGATCT
CCCAGAAGGGCCTGGACTACGCCAGCCAGCAGGGGACGGCCGCTCTGCAGAAGGAGCTGAAGAGGATCAAGATTC
CTGACTACTCAGACAGCTTTAAGATCAAGCATCTTGGGAAGGGGCATTATAGCTTCTACAGCATGGACATCCGTG
AATTCCAGCTTCCCAGTTCCCAGATAAGCATGGTGCCCAATGTGGGCCTTAAGTTCTCCATCAGCAACGCCAATA
TCAAGATCAGCGGGAAATGGAAGGCACAAAAGAGATTCTTAAAAATGAGCGGCAATTTTGACCTGAGCATAGAAG
GCATGTCCATTTCCGGCTGATCTGAAGCTGGGCAGTAACCCACGTCAGGCAAGCCCACCATCACCTGCTCCAGCT
GCAGCAGCCACATCAACAGTGTCCACGTGCACATCTCAAAGAGCAAAGTGGGGTGGCTGATCCAACCTCTTCCACA
AAAAAATTGAGTCTGCGCTTCGAAACAAGATGAACAGCCAGGTCTGCGAGAAAGTGACCAATTCTGTATCCTCCG
AGCTGCAACCTTATTTCCAGACTCTGCCAGTAATGACCAAAATAGATTCTGTGGCTGGAATCAACTATGGTCTGG
TGGCACCTCCAGCAACCACGGCTGAGACCCTGGATGTACAGATGAAGGGGGAGTTTACAGTGAGAACCACCACA
ATCCACCTCCCTTTGCTCCACCAGTGATGGAGTTTCCCGCTGCCCATGACCGCATGGTATACCTGGGCCTCTCAG
ACTACTTCTTCAACACAGCCGGGCTTGTATACCAAGAGGCTGGGGTCTTGAAGATGACCCCTAGAGATGACATGA
TTCCAAAGGAGTCCAAATTTGACTGACAACCAAGTTCTTTGGAACCTTCCTACCTGAGGTGGCCAAGAAGTTTC
CCAACATGAAGATACAGATCCATGTCTCAGCCTCCACCCCGCCACACCTGTCTGTGCAGCCCACCGGCCTTACCT
TCTACCCTGCCGTGGATGTCCAGGCCTTTGCCGTCTTCCCAACTCCTCCCTGGCTTCCCTCTTCTGATTGGCA
GCACACAACTGGTTCCATGGAGGTCAGCGCCGAGTCCAACAGGCTTGTGGAGAGCTCAAGCTGGATAGGCTGCT
CCTGGAAGTGAAGCACTCAAATATTGGCCCTTCCCGTTGAATTGCTGCAGGATATCATGAACTACATTGTACC
CATTCTTGTGCTGCCCAGGGTTAACGAGAACTACAGAAAGGCTTCCCTCTCCCGACGCCGCGCCAGAGTCCAGCT
CTACAACGTAGTGCTTCAGCCTCACCAGAACTTCCTGCTGTTCCGTGCAGACGTTGTCTATAAATGAAGGCACCA
GGGGTGCCGGGGGCTGTGAGCCACACCTGTTCTGATGGGCTGTGGGGCACCGGCTGCCTTTCCCCAGGGAATCC
TCTCCAGATCTTAACCAAGAGCCCCTTGCAAACCTTCTCGACTCAGATTCAGAAATGATCTAAACACGAGGAAAC
ATTATTCATTGGAAAAGTGCATGGTGTGATTTTAGGGATTATGAGCTTCTTCAAGGGCTAAGGCTGCAGAGAT
ATTTCTCCAGGAATCGTGTTTCAATTGTAACCAAGAAATTTCCATTGTGCTTCATGAAAAAAACTTCTGGTT
TTTTTCATGTG

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FIGURE 5769

GCGCTCCAAGATGCGGCGAACGTGTTCCCGTTCCGCGACGCCCGTGCCGCACCGGACCCAGTGCTGGAGGCCGG
CCCGGTGGCACACGGGGCCACTGCCGGTACCGCTGGTGCTGGACAACGGGTCGTTCCAAGTCCGCGCTGGCTGGGC
GTGTCCCGGGCAGGACCCAGGTCCCGAGCCGCGCCTGCAGTTCGCGCGGGTGTGCGCCCCGCGGTCTGGCGGGGC
ACGGGGCGCGTCGGGGCCCCGAGGTGGGGAACGCTCTGGGCAGCCTGGAGCCACTGCGCTGGATGCTGCGCTCGCC
CTTCGACCGCAACGTGCCGGTCAACCTGGAGCTTCAGGAGTTGCTGCTGGACTACAGCTTCAGACCTGGGTGT
CTCCTCACAGGGCTGTGTTGATCATCCCATAGTTTTGACAGAAGCTGTGTGCAACCCACTGTATTACGGCAAAT
GATGTCTGAGCTTCTTTTGTAGTGCTACGGGATTCCCAAGGTTGCCTATGGAATAGACAGCCTCTTCAGCTTCTA
CCACAATAAGCCAAAGAACTCGATGTGCAGTGGGCTAATCATTTTCATCTGGATAACAGTGATGACGATGTTTTACC
CATCTTAGAAGGGAGATTAGATGCTAAAACTGCAAGCGCATCAATCTTGGAGGAAGCCAAGCAGCTGGTTACCT
CCAGCGTCTCCTCCAGCTGAAGTACCCTGGGCACCTGGCAGCCATCACCTCAGCCGCATGGAGGAGATTCTGCA
TGAGCACAGCTACATCGCTGAGGATTATGTGGAAGAATTACACAAATGGCGGTGTCCTGATTATTATGAGAATAA
TGTCACAAGATGCAGCTCCCATTTTCAGCAAGCTCCTGGGCAGCACTCTGACCTCTGAGGAGAAACAAGAAAG
GCGGCAGCAGCAATTGCGGCGGCTGCAGGAGCTCAATGCCGCGCGCGGGAGGAGAAGCTGCAGCTGGATCAGGA
GCGTCTGGACCGACTGCTATATGTGCAGGAACCTCTAGAGGATGGCCAGATGGATCAGTTTCACAAAGCTCTGAT
AGAGCTGAATATGGACTCCCCAGAAGAGCTGCAGTCTACATCCAGAAGCTCAGTATAGCAGTGGAGCAGGCTAA
GCAGAAAATCCTCCAAGCGGAAGTCAACCTCGAGGTGGATGTGGTAGACAGCAAGCCAGAGACCCCTGACCTGGA
GCAGCTGGAGCCGTCTTTGGAAGATGTGGAAGCATGAATGATTTTGATCCCTTGTTTTTCAGAGGAAACACCTGG
AGTGGAGAAGCCGGTCACCACTGTTTCAGCCCGTGTTTAACTTGGCAGCATATCATCAGCTATTTGTTGGGACAGA
AAGAATTCGAGCTCCAGAGATTATTTTCCAGCCATCTCTCATAGGAGAAGAACAGGCTGGGATTGCAGAGACTCT
TCAGTACATTCCTGGACAGGTACCCAGAGGACATTAGGAAATGCTGGTTCAGAACGTTTTCTCACTGGCGGCAA
CACGATGTATCCTGGCATGAAAGCCAGAATGGAGAAGGAAGTGTGGAGATGAGACCCCTCCGGTCTTCTTTTCA
GGTCAACTTGCCCTCGAACCCCTGTGCTGGATGCCTGGTACGGTGCTCGTGACTGGGCCTTGAACCACCTAGATGA
TAATGAAGTTTGGATCACCAGGAAAGAGTATGAAGAAAAGGGAGGAGAGTACCTCAAGGAGCACTGTGCTTCCAA
CATCTATGTCCCCATCCGCCTGCCGAAGCAGGCCTCCCGCTCCTCAGATGCCAGGCATCCAGCAAGGGCTCCGC
TGCTGGTGGAGGTGGTGCTGGTGAGCAGGCATAGCAGAGGCCCTCCAGAGAGACTGCCCTGCACGCCATGCCTTG
GGCCACGTTGGCAGTGTGACAGGACTGTGATTGTGCTAGATGTACCTGCCCAAGTCTGCTGGTCACATTTGGCAG
CAAAATGGATTTCCTCGGGGAGAACAAAGTTAAGGGACACTGAGACCTGCCCTTCAGAATTCGGTTCACCTGGG
GGCTTCTGTGGTAGAGACTAAGTGGCCTTCTGATGTCTTTGTTCAACTGTGGCCAGCTGTGGCATCAGCTTCCTG
GAGCAGTAAATGAAGACAGAGTGGAGGACACAAATGTACAAAATGCACAAGACTGATTCTTACCACATTTTAGT
CTTCTTGTTTT

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FIGURE 5770

MAANVFPPRDARAAPDPVLEAGPVAHGPLPVPLVLDNGSFQVRAGWACPGQDPGPEPRLQFRAVCARGRGGARGA
SGPQVGNALGSLEPLRWMLRSPFDRNVPVNLELQELLLDYSFQHLGVSSQGCVDHP IVLTEAVCNPLYSRQMMSE
LLFECYGIPKVAYGIDSLFSFYHNKPKNSMCSGLIISSGYQCTHVLP ILEGR L DAKNCKRINLGGQAAGYLQRL
LQLKYPGHAAITLSRMEEILHEHSYIAEDYVEELHKWRCPDY YENNVHKMQLPFSSKLLGSTLTSEEKQERRQQ
QLRRLQELNARRREEKLQLDQERLDRLLYVQELLEDGQMDQFHKALIELNMDSPEELQSYIQKLSIAVEQAKQKI
LQAEVNLEVDVVDSPETPDLEQLEPSLEDVESMNDFDPLFSEETPGVEKPVTTVQPVFNLAAYHQLFVGTERIR
APEIIFQPSLIGEEQAGIAETLQYILD RYPEDIQEMLVQNVFLTGGNTMYPGMKARMEKELLEMRPFRRSSFQVQL
ASNPVLDAWYGARDWALNHLDDNEVWITRKEYEEKGGEYLKEHCASNIYVPIRLPKQASRSSDAQASSKGSAAAG
GGAGEQA

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FIGURE 5771A

GGGGTGCCGCCGCCGCGCTTGCGCTTGCTCCCGGGCGGTCTGGCCTGTGCCGCCGCCGCCGCCAGCGTCGGAGC
CATGGCGGGCGCCGCGTCCCCCTGCGCCAACGGCTGCGGGCCCCGGCGCGCCCTCGGACGCCGAGGTGCTGCACCT
CTGCCGCAGCCTCGAGGTGGGCACCGTCATGACTTTGTTCTACTCCAAGAAGTCGCAGCGACCCGAGCGGAAGAC
CTTCCAGGTCAAGCTGGAGACGCCCAGATCACGTGGAGCCGGGGCGCCGACAAGATCGAGGGGGCCATTGACAT
TCGTGAAATTAAGGAGATCCGCCCAGGGAAGACCTCACGGGACTTTGATCGCTATCAAGAGGACCCAGCTTTCCG
GCCGGACCACTCACATTGCTTTGTCAATTCTCTATGGAATGGAATTTGCGCTGAAAACGCTGAGCCTGCAAGCCAC
ATCTGAGGATGAAGTGAACATGTGGATCAAGGGCTTAACTTGGCTGATGGAGGATACATTGCAGGCACCCACACC
CCTGCAGATTGAGAGGTGGCTCCGGAAGCAGTTTTACTCAGTGGATCGGAATCGTGAGGATCGTATATCAGCCAA
GGACCTGAAGAACATGCTGTCCCAGGTCAACTACCGGGTCCCCAACATGCGCTTCCCTCCGAGAGCGGCTGACGGA
CCTGGAGCAGCGCAGCGGGGACATCACCTACGGGCAGTTTGCTCAGCTGTACCGCAGCCTCATGTACAGCGCCCA
GAAGACGATGGACCTCCCCCTTCTTGAAGCCAGTACTCTGAGGGCTGGGGAGCGGCCGGAGCTTTGCCGAGTGT
CCTTCCCTGAGTTCCAGCAGTTCCCTTCTTGAATACAGGGGAGCTGTGGGCTGTTGATCGCCTCCAGGTGCAGGA
GTTTATGCTCAGCTTCCCTCCGAGACCCCTTACGAGAGATCGAGGAGCCATACTTCTTCCCTGGATGAGTTTGTAC
CTTCTGTTCTCAAAGAGAACAGTGTGTGGAACCTCGCAGCTGGATGCAGTATGCCCGGACACCATGAACAACCC
TCTTCCCACTACTGGATCTCCTCCTCGCACAAACAGTACCTGACCGGGGACAGTTCTCCAGTGAGTCTCCTT
GGAAGCCTATGCTCGCTGCCTGCGGATGGGCTGTGCTGCATTGAGTTGGACTGCTGGGACGGCCCGGATGGGAT
GCCAGTTATTTACCATGGGCACACCCCTTACCACCAAGATCAAGTTCTCAGATGTCTGACACCATCAAGGAGCA
TGCCCTTGTGGCTCAGAGTACCCAGTCATCCTGTCCATTGAGGACCACTGCAGCATTGCCCAGCAGAGAAACAT
GGCCCAATACTTCAAGAAGGTGCTGGGGGACACACTCCTCACCAAGCCCGTGGAGATCTCTGCCGACGGGCTCCC
CTACCCAACAGCCTTAAGAGGAAGATCCTCATCAAGCACAAGAAGCTGGCTGAGGGCAGTGCCACGAGGAGGT
GCTACATCCATGATGTACTCTGAGAACGACATCAGCAACTCTATCAAGAATGGCATCCTCTACCTGGAGGACCC
TGTGAACCACGAATGCTATCCCCACTACTTTGTTCTGACCAGCAGCAAGATCTACTACTCTGAGGAGACCAGCAG
TGACCAGGGCAACGAGGATGAGGAGGAGCCCAAGGAGGTGAGCAGCAGCAGAGAGTGCCTCAATGAGAAAGTG
GTTCCATGGGAAGCTAGGGGCGAGGGCGTGACGGGCGTACATCGCTGAGCGCCTGCTTACTGAGTACTGCATCGA
GACCGGAGCCCCCTGACGGCTCCTTCCCTCGTGCGAGAGTGAAGCTTCTGTTGGGCGACTACACGCTCTCTTTCTG
GCGGAACGGGAAAGTCCAGCACTGCCGTATCCACTCCCGGCAAGATGCTGGGACCCCCAAGTCTTCTTGACAGA
CAACCTCGTCTTTGACTCCCTCTATGACCTCATCACGCACTACCAGCAGGTGCCCTGCGCTGTAATGAGTTGA
GATGCGACTTTTCAGAGCCTGTCCACAGACCAACGCCCACGAGAGCAAAGAGTGGTACCACGCGAGCCTGACCAG
AGCACAGGCTGAGCACATGCTAATGCGCGTCCCTCGTGATGGGGCCTTCCCTGGTGGGAAGCGGAATGAACCCAA
CTCATATGCCATCTCTTTCCGGGCTGAGGGCAAGATCAAGCATTGCCGTGTCCAGCAAGAGGGCCAGACAGTGAT
GCTAGGGAACCTCGGAGTTTCGACAGCCTTGTGACCTCATCAGCTACTATGAGAAACACCCGCTATACCGCAAGAT
GAAGCTGCGCTATCCCATCAACGAGGAGGCACTGGAGAAGATTGGCACAGCTGAGCCTGACTACGGGGCCCTGTA
TGAGGGACGCAACCCTGGCTTCTATGTAGAGGCAACCCCTATGCCAATTTCAAGTGTGACTCAAAGCCCTCTT
TGACTACAAGGCCAGAGGGAGGACGAGCTGACCTTCAAGAGCGCCATCATCCAGAATGTGGAGAAGCAAGA
GGGAGGCTGGTGGCGAGGGGACTACGGAGGGAAGAAGCAGCTGTGGTTCCCATCAAACCTACGTGGAAGAGATGGT
CAACCCCGTGGCCCTGGAGCCGGAGAGGGAGCACTGGACGAGAACAGCCCCCTAGGGGACTTGCTGCGGGGGGT
CTTGATGTGCCGGCTTGTGAGATTGCCATCCGTCTGAGGGCAAGAACAACCGGCTCTTCTGCTTCTCCATCAG
CATGGCGTGGTGGCCCACTGGTCCCTGGATGTTGCTGCCGACTCACAGGAGGAGCTGCAGGACTGGGTGAAAAA
GATCCGTGAAGTGGCCCAAGACAGCAGACGCCAGGCTCACTGAAGGGAAGATAATGGAACGGAGGAAGAAGATTGC
CCTGGAGCTCTCTGAACCTGTGCTCTACTGCCGGCTGTTCCTTTGATGAAGAGAAGATTGGCACAGAACGTGC
TTGCTACCGGGACATGTATCCTTCCCGGAAACCAAGGCTGAGAAATACGTGAACAAGGCCAAAGGCAAGAAGTT
CCTTCAGTACAATCGACTGCAGCTCTCCCGCATCTACCCCAAGGGCCAGCGACTGGATTCTTCAACTACGATCC
TTTGGCCATGTGGATCTGTGGCAGTCAGCTTGTGGCCCTCAACTTCCAGACCCCTGACAAGCCTATGCAGATGAA
CCAGGCCCTCTTATGACGGGCAGGCACTGTGGCTACGTGCTGCAGCCAAGCACCATGCGGGATGAGGCCTTCGA
CCCCTTTGACAAGAGCAGCCTCCGCGGGCTGGAGCCATGTGCCATCTCTATTGAGGTGCTGGGGGCCGACATCT
GCCAAGAATGGCCGAGGCATTGTGTGCTCTTTGTGGAGATTGAGGTGGCTGGAGCTGAGTATGACAGCACCAA
GCAGAAGACAGAGTTTGTGGTGGACAATGACTCAACCCTGTATGGCCAGCCAAGCCCTTCCACTTCCAGATCAG
TAACCCTGAATTTGCCTTCTGCGCTTCTGTTGTTGATGAGGAAGACATGTTTAGTGACCAGAATTTCTGGCTCA

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FIGURE 5771B

GGCTACTTTCCCAGTAAAAGGCCTGAAGACAGGATACAGAGCAGTGCCTTTGAAGAACAACCTACAGTGAGGACCT
GGAGTTGGCCTCCCTGCTGATCAAGATTGACATTTTCCCTGCCAAGGAGAATGGTGACCTCAGTCCCTTCAGTGG
TACGTCCCTGCGGGAGCGGGGCTCAGATGCCTCAGGCCAGCTGTTTTCATGGCCGAGCCCCGGAAGGCTCCTTTGA
ATCCCGCTACCAGCAGCCGTTTGAGGACTTCCGCATCTCCCAGGAGCATCTCGCAGACCATTTTGACAGTCGAGA
ACGAAGGGCCCCAAGAAGGACTCGGGTCAATGGAGACAACCGCCTCTAGTTGTACCCAGCCTCGTTGGAGAGCA
GCAGGTGCTGTGCGCCTTGTAAGATGCCGCGAACTGGGTTCTTTGGAAGCAGCCCCCTGTGGCGGCCTTCCGGGT
CTCGCAGCCTGAAGCCTGGATTCCAGCAGTGAATGCTAGACAGAAACCAAGCCATTAATGAGATGTTATTACTGT
TTTGGGCCTCCATGCCCCAGCTCTGGATGAAGGCAAAAACCTGTACTGTGTTTCGCATTAAGCACACACATCTGGC
CCTGACTTCTGGAGATGGATCCTTCCATCTTGTGGGGCCAGGACCATGGCCGAAGCCCCCTTGGAGAGAGAGGCTG
CCTCAGCCAGTGGCACAGGAGACTCCAAGGAGCTACTGACATTCTTAAGAGTGGAGGAGGAGGAGGAGCCTTGCT
GGGCCAGGGAAACAAAGTTTACATTGTCCTGTAGCTTTAAAACCACAGCTGGGCAGGG

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FIGURE 5772

MAGAASPCANGCGPGAPSDAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKLETRQITWSRGADKIEGAIDI
REIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAPTP
LQIERWLRKQFYSDRNREDRISAKDLKNMLSQVNYRVPMRFLRERLTDLEQRSGDITYGQFAQLYRSLMYSAQ
KTMDLPFLEASTLRAGERPELRCVSLPEFQQFLLDYQGELWAVDRLQVQEFMLSFLRDPLREIEEPYFFLDEFVT
FLFSKENS VWNSQLDAVCPDTMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGM
PVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQYFKKVLGDTLLTKPVEISADGLP
SPNQLKRKILIKHKKLAEGSAYEEVPTSMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSS
DQGNEDDEEPKEVSSSTELHSNEKWFGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLFSW
RNGKVQHCRHSRQDAGTPKFFLTDNLVFDSDLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTR
AQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKM
KLRYPINEEAEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFIKSAIIQNVEKQE
GGWWRGDYGGKKQLWFPSNYVEEMVNPVALEPEREHLDENSPLGDLRLRGVLDVPACQIAIRPEGKNNRLFVFSIS
MASVAHWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKIMERRKKIALELSELVVYCRVPVPFDEEKIGTERA
CYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQ LVALNFQTPDKPMQMN
QALFMTGRHCGYVLQPSTMRDEAFDPFDKSSLRGLEPCAISIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTK
QKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVEEDMFSDQNFQAQATFPVKGLKTGYRAVPLKNNYSEDL
ELASLLIKIDIFPAKENGDLSPFSGTSLRERGS DASGQLFHGRAREGSFESRYQQPFEDFRISQEHLDHFD SRE
RRAPRRTRVNGDNRL

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FIGURE 5773

TAAGAGTCATCACTTCTGCTGAGTAGGCAAAACAATGAACTATAACAACAGACATCATTTTCTTTCCTTAAATTC
TGAGGTTTATGCTGGAAAAATAAACCCATTTCTTTATAAACATCTAATTAAATAAAAGTATCAAAGAAAAATAAGAT
AATGGAAGAAGCATCCGCCTTTTGGGGCACTATATTCCTAAGGTTGGGCTTTAAGATTTTTTAACAGGAAACCCA
GGAATTTCTGAAAAACAAGGCCTTTTTTACATTACCAAGAAGCTCACAGCTACTCTGTGAATGCCCTAGATATTTG
ACTCAAATTTTTCACTCAATCTTATTAGGTATATTTCTGGATTATTTGAATCTACAAACCAACCCTAGAATATCA
TGCTTTCCAGTCACACCTGTGGCACAATGAGCAGTGTACGACCATGCCCCATCACAATCCAACCCTGGTACCCCT
ACATTGTGACACCTCCTAGAAAGGTATTAAAGCTGAGCCAATTAATCTATATTTTGATTCAGACTAAGATTAAT
AAATGCTTTTAAATAAAGTAACTTTTAAGGTATCTGAACAAAGGGATGTAAGGTTAATTCACTTCTCAAAGTCA
ATTTCAACTCATCAGGCTTATGGATGTATGGACTAATTGCTAACCTAGTAACCTCTACAAATTTGCAGTATTCAA
AGCGTTTACCCATTTCACTGTTTTTCAAACCAATTACACAAAGCATTAAAAATTTACAAGTATGATCTAACCAATT
ATCAAATAATCCCACTAACTACAAAGGGGACTGACTACTGGGTGGAACCTTAAGTGGCAACTGACTTTACTGAGAT
TAAGTGCCTGTTAAACATAATGATCTTTTACGAGAAAATGCAGTATGTGCTTTTACACTTTGAATAAACTCAATT
TCAGAACAAAAAGAGGCTACTTCCATTTCCACATGACAAACATTAAAG

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FIGURE 5774

GCTGACGCCTTCGAGCGCGGCCCCGGGGCCCGGAGCGGCGCGGAGCAGCCCGGGTCTTGACCCCGGCCCGGCTCCCG
CTCCGGGCTCTGCCGGCGGGCGGGCGAGCGCGGCGCGGTCCGGGCGGGGGGATGCTCGGCGGACGCGCTGCGA
GGATCTGGATGAGCTGCACTACCAGGACACAGATTTCAGATGTGCCGGAGCAGAGGGATAGCAAGTGCAAGGTCAA
ATGGACCCATGAGGAGGACGAGCAGCTGAGGGCCCTGGTGAGGCAGTTTGGACAGCAGGACTGGAAGTTCTTGCC
CAGCCACTTCCCTAACCGCACTGACCAGCAATGCCAGTACAGGTGGCTGAGAGTTTTGAATCCAGACCTTGTC
GGGGCCATGGACCAAAGAGGAAGACCAAAAGTCATCGAGCTGGTTAAGAAGTATGGCACAAAGCAGTGACACT
GATTGCCAAGCACCTGAAGGGCGGCTGGGGAAGCAGTGCCGTGAACGCTGGCACAAACCTCAACCCTGAGGT
GAAGAAGTCTTGCTGGACCGAGGAGGAGGACCGCATCATCTGCGAGGCCCACAAGGTGCTGGGCAACCGCTGGGC
CGAGATCGCCAAGATGTTGCCAGGGAGGACAGACAATGCTGTGAAGAATCACTGGAACCTTACCATCAAAAGGAA
GGTGGACACAGGAGGCTTCTTGAGCGAGTCCAAAGACTGCAAGCCCCAGTGTAAGTGTGCTGGAGCTCGAGGA
CAAGGACGGCCTCCAGAGTGCCAGCCACGGAAGGCCAGGGAAGTCTTCTGACCAACTGGCCCTCCGTCCCTCC
TACCATAAAGGAGGAGGAAAACAGTGAGGAGGAAGTTCAGCAGGCCACCACATCGAAGGAACAGGAGCCCATCGG
TACAGATCTGGACGCACTGCGAACACCAGAGCCCTTGAGGGAATTCGGAAGCGTGAGGACCAGGAAGGCTCCCC
ACCAGAAACGAGCCTGCCTTACAAGTGGGTGGTGAGGCAGCTAACCTCCTCATCCCCGCTGTGGGTCTTAGCCT
CTCTGAAGCCCTGGACTTGATCGAGTCGGACCCTGATGCTTGGTGTGACCTGAGTAAATTTGACCTCCCTGAGGA
ACCATCTGCAGAGGACAGTATCAACAACAGCCTAGTGCAGCTGCAAGCGTCACATCAGCAGCAAGTCTTGCCACC
CCGCCAGCCTTCCGCCCTGGTGCCAGTGTGACCGAGTACCGCCTGGATGGCCACACCATCTCAGACCTGAGCCG
GAGCAGCCGGGGCGAGCTGATCCCCATCTCCCCAGCACTGAAGTCGGGGGCTCTGGCATTGGCACACCGCCCTC
TGTGCTCAAGCGGCAGAGGAAGAGGCGTGTGGCTCTGTCCCCGTCACTGAGAATAGCACCAGTCTGTCTTCTCT
GGATTCTGTAAACAGCCTCACGCCCAAGAGCACACCTGTTAAGACCCTGCCCTTCTCGCCCTCCAGTTTTCTGAA
CTTCTGGAACAAACAGGACACATTGGAGCTGGAGAGCCCTCGCTGACATCCACCCAGTGTGCAGCCAGAAGGT
GGTGGTCACCACACCCTGCACCGGGACAAGACACCCCTGCACCAGAAACATGCTGCGTTTGTAACCCAGATCA
GAAGTACTCCATGGACAACACTCCCCACACGCCAACCCTGTTCAAGAACGCCCTGGAGAAGTACGGACCCCTGAA
GCCCCTGCCACAGACCCCGCACCTGGAGGAGGACTTGAAGGAGGTGCTGCGTTCTGAGGCTGGCATCGAATCAT
CATCGAGGACGACATCAGGCCCCGAGAAGCAGAAGAGGAAGCCTGGGCTGCGGCGGAGCCCCATCAAGAAAGTCCG
GAAGTCTCTGGCTCTTGACATTGTGGATGAGGATGTGAAGCTGATGATGTCCACACTGCCCAAGTCTCTATCCTT
GCCGACAAGTGCCTTCAAACCTCTCCAGCCTCACCTGTCAGGTATCAAAGAAGACAACAGCTTGCTCAACCA
GGGCTTCTTGAGGCCAAGCCCCGAGAAGGCAGCAGTGGCCAGAAAGCCCCGAAGCCACTTCACGACACCTGCCCC
TATGTCCAGTGCCTGGAAGACGGTGGCTGCGGGGGGACCAGGGACCAGCTTTTCATGCAGGAGAAAGCCCGGCA
GCTCCTGGGCGCCTGAAGCCAGCCACACATCTCGGACCCCTCATCTTGTCTGAGGTGTTGAGGGTGTACAGAG
CCCATTCTCATGTTTACAGGGGTGTGGGGGCAGAGGGGCTCTGTGAATCTGAGAGTCATTAGGTGACCTCCTG
CAGGGAGCCTTCTGCCACCAGCCCTCCCCAGACTCTCAGGTGGAGGCAACAGGGCCATGTGCTGCCCTGTTGCC
GAGCCAGCTGTGGGCGGCTCCTGGTGCTAACAACAAAGTTCCACTTCCAGGTCTGCCTGGTTCCCTCCCCAAGG
CCACAGGGAGCTCCGTACGCTTCTCCCAAGCCACGTCAGGCCTGGCCTCATCTCAGACCTGCTTAGGATGGGG
GATGTGGCCAGGGGTGCTCCTGTGCTCACCTCTCTTGGTGCAATTTTTTTGGAAGAATAAAATTGCCTCTCTCTT
TG

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FIGURE 5775

MSRRTRCEDLDELHYQDIDSVDPEQRDSKCKVKWTHEEDEQLRALVRQFGQQDWKFLASHFPNRTDQQCQYRWLR
VLNPDVLVKGFWTKEEDQKVIELVKKYGTKQWTLIAKHLKGRLGKQCRERWHNHLNPEVKKSCWTEEDRIICEAH
KVLGNRWAEIAKMLPGRTDNAVKNHWNSTIKRKVDTGGLSESKDCKPPVYLLLELEDKDGLQSAQPTGQGSLL
TNWPSVPPTIKEENSEEELAAATTSKEQEPIGTDLDAVRTPEPLEEFPKREDQEGSPPETSLPYKWVVEAANLL
IPAVGSSLSEALDLIESDPDAWCDLSKFDLPEEPSAEDSINNSLVQLQASHQQQVLPPRQPSALVPSVTEYRLDG
HTISDLRSRSGELIPISPSTEVGSGIGTPPSVLKRQRKRRVALSPVTENSTLSFLDSCNSLTPKSTPVKTLP
FSPSQFLNFWNKQDTLELESPLTSTPVC SQKVVVTTPLHRDKTPLHQKHAAFVTPDQKYSMDNTPHTPTPFKNA
LEKYGPLKPLPQTPHLEEDLKEVLRSEAGIELIIEDDIRPEKQKRKPLRRSPIKKVRKSLALDIVDEDVKLMMS
TLPKSLSLPTTAPSNSSSLTSLGIKEDNSLLNQGLQAKPEKAAVAQKPRSHFTTPAPMSSAWKTIVACGGTRDQL
FMQEKARQLLGRLLKPSHTSRTLILS

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FIGURE 5776

ACCGCTGGCCCCAGGGAAAGCCGAGCGGCCACCGAGCCGGCAGAGACCCACCGAGCGGCGGGAGGGAGCAGCG
CCGGGGCGCACGAGGGCACCATGGCCCCAGACGCCCGCCTTCGACAAGCCCAAAGTGAAACTGCATGTCCACCTAG
ACGGATCCATCAAGCCTGAAACCATCTTATACTATGGCAGGAGGAGAGGGATCGCCCTCCCAGCTAACACAGCAG
AGGGGCTGCTGAACGTCATTGGCATGGACAAGCCGCTCACCCCTTCAGACTTCCTGGCCAAGTTTGACTACTACA
TGCCTGCTATCGCGGGCTGCCGGGAGGCTATCAAAAGGATCGCCTATGAGTTTGTAGAGATGAAGGCCAAAGAGG
GCGTGGTGTATGTGGAGGTGCGGTACAGTCCGCACCTGCTGGCCAACCTCAAAGTGGAGCCAATCCCCTGGAACC
AGGCTGAAGGGGACCTCACCCCAGACGAGGTGGTGGCCCTAGTGGGCCAGGGCCTGCAGGAGGGGGAGCGAGACT
TCGGGGTCAAGGCCCGGTCCATCCTGTGCTGCATGCGCCACCAGCCCCAACTGGTCCCCCAAGGTGGTGGAGCTGT
GTAAGAAGTACCAGCAGCAGACCGTGGTAGCCATTGACCTGGCTGGAGATGAGACCATCCCAGGAAGCAGCCTCT
TGCCCTGGACATGTCCAGGCCTACCAGGAGGCTGTGAAGAGCGGCATTACCGTACTGTCCACGCCGGGGAGGTGG
GCTCGGCCGAAGTAGTAAAAGAGGCTGTGGACATACTCAAGACAGAGCGGCTGGGACACGGCTACCACACCCCTGG
AAGACCAGGCCCTTTATAACAGGCTGCGGCAGGAAAACATGCACTTCGAGATCTGCCCCCTGGTCCAGCTACCTCA
CTGGTGCCTGGAAGCCGGACACGGAGCATGCAGTCATTGGCTCAAAAATGACCAGGCTAACTACTCGCTCAACA
CAGATGACCCGCTCATCTTCAAGTCCACCCTGGACACTGATTACCAGATGACCAAACGGGACATGGGCTTTACTG
AAGAGGAGTTTAAAAGGCTGAACATCAATGCGGCCAAATCTAGTTTCCTCCCAGAAGATGAAAAGAGGGAGCTTC
TCGACCTGCTCTATAAAGCCTATGGGATGCCACCTTCAGCCTCTGCAGGGCAGAACCTCTGAAGACGCCACTCCT
CCAAGCCTTCACCCTGTGGAGTCACCCCAACTCTGTGGGGCTGAGCAACATTTTACATTTATTCTTCCAAGAA
GACCATGATCTCAATAGTCAGTTACTGATGCTCCTGAACCCTATGTGTCCATTTCTGCACACACGTATACCTCGG
CATGGCCGCGTCACCTTCTCTGATTATGTGCCCTGGCCAGGGACCAGCGCCCTTGACATGGGCATGGTTGAATCT
GAAACCCTCCTTCTGTGGCAACTTGTAAGTGAATCTGGTGTCTAATAAAGAAGCCCATGGCTGGTGGCATGC

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FIGURE 5777

MAQTPAFDKPKVKLHVHLDGSIKPETILYYGRRRGIALPANTAEGLLNVIGMDKPLTLPDFLAKFDYYMPAAGC
REAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVEPIPNWQAEGDLTPDEVVALVGQGLQEGERDFGVKARS
ILCCMRHQPNWSPKVVVELCKKYQQQTVVAIDLAGEDETIPGSSLLPGHVQAYQEAVKSGIHRTVHAGEVGSAEVVK
EAVDILKTERLGHYHTLEDQALYNRLRQENMHFEICPWSSYLTGAWKPDTEHAVIRLKNDQANYSLNTDDPLIF
KSTLDTDYQMTKRDMGFTEEEFKRLNINAAKSSFLPEDEKRELLDILLYKAYGMPPSASAGQNL

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FIGURE 5778

GTTTCGCTGTTGGGCGGAGATATTCGCCGCCGGCGCTTGCGCCCGGAAGGTGTGCCGCACCACACGGGGGAGGAAG
GAAGGAGCTCCCAACTCGCCGGCCTGGCCACGGGATGGCCCCCAAATTCCCAGACTCTGTGGAGGAGCTCCGCGC
CGCCGGCAATGAGAGTTTCCGCAACGGCCAGTACGCCGAGGCCTCCGCGCTCTACGGCCGCGCGCTGCGGGTGCT
GCAGGCGCAAGGTTCTTCAGACCCAGAAGAAGAAAGTGTTCTCTACTCCAACCGAGCAGCATGTCACCTTGAAGGA
TGGAAACTGCAGAGACTGCATCAAAGATTGCACTTCAGCACTGGCCTTGGTTCCCTTCAGCATTAAAGCCCTGCT
GCGGCGAGCATCTGCTTATGAGGCTCTGGAGAAGTACCCTATGGCCTATGTTGACTATAAGACTGTGCTGCAGAT
TGATGATAATGTGACGTGAGCCGTAGAAGGCATCAACAGAATGACCAGAGCTCTCATGGACTCGCTTGGGCCTGA
GTGGCGCCTGAAGCTGCCCTCAATCCCCCTTGGTGCTGTTTCAGCTCAGAAGAGGTGGAATTCCTTGCCCTTCGGA
GAACCACAAAGAGATGGCTAAAAGCAAATCCAAAGAAACCACAGCTACAAAGAACAGAGTGCCCTTCTGCTGGGGA
TGTGGAGAAAGCCAGAGTTCTGAAGGAAGAAGGCAATGAGCTTGTAAGAAGGGAAACCATAAGAAAGCTATTGA
GAAGTACAGTGAAAGCCTCTTGTGTAGTAACCTGGAATCTGCCACGTACAGCAACAGAGCACTCTGCTATTTGGT
CCTGAAGCAGTACACAGAAGCAGTGAAGGACTGCACAGAAGCCCTCAAGCTGGATGGAAAGAACGTGAAGGCATT
CTACAGACGGGCTCAAGCCCACAAAGCACTCAAGGACTATAAATCCAGCTTTGCAGACATCAGCAACCTCCTACA
GATTGAGCCTAGGAATGGTCCCTGCACAGAAGTTGCGGCAGGAAGTGAAGCAGAACCTACACTAAAAACCCAACAG
GGCAACTGGAACCCCTGCCTGACCTTACCCAGAGAAGCCATGGGCCACCTGCTCTGTGCCCCGCTCCTGAAACCCA
GCATGCCCCAAGTGAGCTCTGAAGCCCCCTCCTCAATCCCTTGATGGCCTCCCACCCTGTAAGAGGCTTTGCTTG
TTCAAATTAAACTCAGTGTAGTCAAACACAGACATGGTTGTTGCACCAGAAAGGTCCCCACTAGAGCTAAGCGTG
AAGCTGAAGCTCTGTCCCTATTCCCCCAGCCAGCTAGCTGATCACACCAACAGATCCTCATCAGCAAAGCATT
GGCTTTGTCTGCCCCAAGTGGGCTGCAGACTGAGTGCTGCCCTTGTAGCTTCCCCAGACCCCACTCACTGCAGT
TCATCTGAACAACCTGAGCTCCTGGGCCGGGGTGGAAGGAGGGGGATAAACCTAAGGCCCTGATCCAAAGCAGCC
TGTTGAGCTGGTTCTCCAGGGCTGCAGTCTCTCCAGGTGTACAGCTGCTGTCCCTGCCCTGTCTGTCTTGCAC
AGTCTCCTATGTCTGAGCCCCAGTGCCCTTCTGTTGCGGCCCTCCTTTGGTGGGAAGGCAGAGCCCTGACCCCTGA
ATGGTTGTCTTGAAGTCTGTGCTGCTGCCTTCTGCAGAGAGGCACCTAAGCTGTTTAAAGAGCCAGTGATTGTG
GCTGCTCCTCCTAGAGGTGGGAGGGGGCAAGAGGCCTCCTTGGTCAGTGTCATGCTTTCTGGGCAGGGACTTGG
TTTTTTGTTCCAACAGTGGCCTTCTCCGGGCTTCATAGTTCTTTGTAATATGTTGAAGTTAATTTGAATTGACTG
ATTTTGTGAACTGTGTGTTTAAAGCTGTTGCATTAAAAAGCTTTCTTCTACATCAATATCTGCTGTGCTTTTATT
TATGCCTTTTTCAGCTTTGCACCTGGAACCTCTGTAGTAATAATAAAAGTTATTGCTTATTGGGCATT

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FIGURE 5779

CAATACAGCTAAGGAATTATCCCTTGTAATAACACAGACCCGCCCTGGAGCCAGGCCAAGCTGGACTGCATAAA
GATTGGTATGGCCTTAGCTCTTAGCCAAACACCTTCCTGACACCAATGAGGGCCAGCAGCTTCTTGATCGTGGTGG
TGTTCCCTCATCGCTGGGACGCTGGTTCTAGAGGCAGCTGTCACGGGAGTTCCCTGTTAAAGGTCAAGACACTGTCA
AAGGCCGTGTTCCATTCAATGGACAAGATCCCGTTAAAGGACAAGTTTCAGTTAAAGGTCAAGATAAAGTCAAAG
CGCAAGAGCCAGTCAAAGGTCCAGTCTCCACTAAGCCTGGCTCCTGCCCCATTATCTTGATCCGGTGCGCCATGT
TGAATCCCCCTAACCGCTGCTTGAAAGATACTGACTGCCAGGAATCAAGAAGTGCTGTGAAGGCTCTTGCGGGA
TGGCCTGTTTCGTTCCCCAGTGAAGGGAGCCGGTCCTTGCTGCACCTGTGCCGTCCCCAGAGCTACAGGCCCCAT
CTGGTCCTAAGTCCCTGCTGCCCTTCCCCTTCCCACACTGTCCATTCTTCCTCCCATTCAAGGATGCCACGGCTG
GAGCTGCCTCTCTCATCCACTTTCCAATAAA

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FIGURE 5780

MRASSFLIVVVFLIAGTLVLEAAVTGVPVKGDITVKGRVPFNGQDPVKGQVSVKGDVKVKAQEPVKGPVSTKPGS
CPIILIRCAMLNPPNRCLKDTCPGIKKCEGSCGMACFVPQ

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FIGURE 5781

CAGAGTCACTCCTGCCTTCACCATGAAGTCCAGCGGCCTCTTCCCCTTCCTGGTGCTGCTTGCCCTGGGAAGTCT
GGCACCTTGGGCTGTGGAAGGCTCTGGAAAGTCCTTCAAAGCTGGAGTCTGTCCTCCTAAGAAATCTGCCAGTG
CCTTAGATACAAGAAACCTGAGTGCCAGAGTGAAGTGGCAGTGTCCAGGGAAGAAGAGATGTTGTCCTGACACTTG
TGGCATCAAATGCCTGGATCCTGTTGACACCCCAACCCAACAAGGAGGAAGCCTGGGAAGTGCCAGTGACTTA
TGGCCAATGTTTGATGCTTAACCCCCCAATTTCTGTGAGATGGATGGCCAGTGCAAGCGTGACTTGAAGTGTTG
CATGGGCATGTGTGGGAAATCCTGCGTTTCCCCTGTGAAAGCTTGATTCCTGCCATATGGAGGAGGCTCTGGAGT
CCTGCTCTGTGTGGTCCAGGTCCTTTCCACCCTGAGACTTGGCTCCACCACTGATATCCTCCTTTGGGGAAAGGC
TTGGCACACAGCAGGCTTTCAAGAAGTGCCAGTTGATCAATGAATAAATAAACGAGCCTATTTCTCTTTGCAC

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FIGURE 5782

MKSSGLFPFLVLLALGTLAPWAVEGSGKSFKAGVCPPKKSAQCLRYKKPECQSDWQCPGKKRCCPDTCGIKCLDP
VDTNPTRRKPGKCPVTYQGCLMLNPPNFCEMDGQCKRDLKCCMGMCVKSCVSPVKA

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FIGURE 5783

GCGGCTATGCCGCTCTGGCTCTGCTCGTCTGTTGCTCCTGGGGCCCGGCGGCTGGTGCCTTGCAGAACCCCCACG
CGACACCTGCGGGAGGAACCTTGTCATACCCCCGCTGCCTTCCGGGGACGTAGCCGCCACATTCCAGTTCCGCACG
CGCTGGGATTTCGGAGCTTCAGCGGGAAGGAGTGTCCCATTACAGGCTCTTTCCCAAAGCCCTGGGGGAGCTGATC
TCCAAGTATTCTCTACGGGAGCTGCACCTGTCATTACACAAGGCTTTTGGAGGACCCGATACTGGGGGCCACCC
TTCCTGCAGGCCCCATCAGGTGCAGAGCTGTGGGTCTGGTTCCAAGACACTGTCACTGATGTGGATAAAATCTTGG
AAGGAGCTCAGTAATGTCTCTCAGGGATCTTCTGCGCTCTCTCAACTTCATCGACTCCACCAACACAGTCACT
CCCACTGCCTCCTTCAAACCCCTGGGTCTGGCCAATGACACTGACCACTACTTTCTGCGCTATGCTGTGCTGCCG
CGGGAGGTGGTCTGCACCGAAAACCTCACCCCTGGAAGAAGCTCTTGCCCTGTAGTTCCAAGGCAGGCCTCTCT
GTGCTGCTGAAGGCAGATCGCTTGTTCCACACCAGCTACCACTCCAGGCAGTGCATATCCGCCCTGTTTGCAGA
AATGCACGCTGTACTAGCATCTCTGGGAGCTGAGGCAGACCCTGTCAGTTGTATTTGATGCCTTCATCACGGGG
CAGGGAAGAAAGACTGGTCCCTCTTCCGGATGTTCTCCGAACCCTCACGGAGCCCTGCCCCCTGGCTTCAGAG
AGCCGAGTCTATGTGGACATCACCACTACAACCAGGACAACGAGACATTAGAGGTGCACCCACCCCCGACCACT
ACATATCAGGACGTATCTTAGGCACTCGGAAGACCTATGCCATCTATGACTTGCTTGACACCGCCATGATCAAC
AACTCTCGAAACCTCAACATCCAGCTCAAGTGAAGAGACCCCCAGAGAAAGAGGCCCCCAGTGCCCTTCTCTG
CATGCCCAGCGGTACGTGAGTGGCTATGGGCTGCAGAAGGGGGAGCTGAGCACACTGCTGTACAACACCCACCCA
TACCGGGCCTTCCCGGTGCTGCTGCTGGACACCGTACCCTGGTATCTGCGGCTGTATGTGCACACCCTCACCATC
ACCTCCAAGGGCAAGGAGAACAACCAAGTTACATCCACTACCAGCCTGCCAGGACCGGCTGCAACCCACCTC
CTGGAGATGCTGATTTCAGCTGCCGGCCAACCTCAGTCACCAAGGTTTCCATCCAGTTTGAGCGGGCGCTGCTGAAG
TGGACCGAGTACACGCAGATCCTAACCATGGCTTCTATGTCAGCCATCTGTCTCAGCGCCCTTGTGCCCAGC
ATGGTAGCAGCCAAGCCAGTGGACTGGGAAGAGAGTCCCTCTTCAACAGCCTGTTCCAGTCTCTGATGGCTCT
AACTACTTTGTGCGGCTCTACACGGAGCCGCTGCTGGTGAACCTGCCGACACCGGACTTCAGCATGCCCTACAAC
GTGATCTGCCTCACGTGCACTGTGGTGGCCGTGTGCTACGGCTCCTTCTACAATCTCCTCACCCGAACCTTCCAC
ATCGAGGAGCCCCGCACAGGTGGCTGGCCAAGCGGCTGGCCAACCTTATCCGGCGCGCCGAGGTGTCCCCCA
CTCTGAATTTCTTGCCCTTTCCAGCAGCTGCAGTGCCGTTTCTCTCTGGGGAGGGGAGCCCAAGGGCTGTTTCTGC
CACTTGCTCTCCTCAGAGTTGGCTTTTGAACCAAAGTGCCCTGGACCAGGTCAGGGCCTACAGCTGTGTTGTCCA
GTACAGGAGCCACGAGCCAAATGTGGCATTGGAATTGAATTAACCTAGAAATTCATTTCTCACCTGTAGTGGC
CACCTCTATATTGAGGTGCTCAATAAGCAAAAGTGGTGGTGGCTGCTGTATTGGACAGCACAGAAAAGATTTT
CATCACACAGAAAGGTGCGCTGGCAGCACTGGCCAAGGTGATGGGGTGTGCTACACAGTGTATGTCACTGTGTA
GTGGATGGAGTTTACTGTTTGTGGAATAAAAACGGCTGTTTCCGTGCAACACAAAAA

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FIGURE 5784

MPSGSARPVAPGARRLVPCRTPTRHLREELVITPLPSGDVAATFQFRTRWDSELQREGVSHYRLFPAKALGQLISK
YSLRELHLSFTQGFWRTRYWGPPFLQAPSGAELWVWFQDTVTDVDSWKELSNVLSGIFCASLNFIDSTNTVTPT
ASFKPLGLANDTDHYFLRYAVLPREVVCTENLTPWKLLPCSSKAGLSVLLKADRLFHTSYHSQAVHIRPVCRNA
RCTSISWELRQTLSSVVFDAFITGQKKDWSLFRMFSRTLTEPCPLASESRVYVDITTYNQDNETLEVHPPPTTTY
QDVILGTRKTYAIYDLLDTAMINNSRNLNIQLKWKRPPENEAPPVPFLHAQRYVSGYGLQKGLSTLLYNTHPYR
AFPVLLLDTPWPYLRLYVHTLTITSKGKENKPSYIHYQPAQDRLOPHLLEMLIQLPANSVTKVSIQFERALLKWT
EYTPDPNHGFYVSPSVLSALVPSMVAAPVDWEESPLFNSLFPVSDGSNYFVRLYTEPLLVLNLPDPSMPYNVI
CLTCTVVAVCYGSFYNNLLTRTFHIEEPRTGGLAKRLANLIRRARGVPPL

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FIGURE 5785

GGCACGAGCGAGTTCTGTCTCTCTGCCAACGCCGCCCGGATGGCTTCCCAAACCGCGACCCAGCCGCCACTAG
CGTCGCCGCCGCCCGTAAAGGAGCTGAGCCGAGCGGGGGCGCCGCCCGGGGTCCGGTGGGCAAAAGGCTACAGCA
GGAGCTGATGACCCTCATGATGTCTGGCGATAAAGGGATTTCTGCCTTCCCTGAATCAGACAACCTTTTCAAATG
GGTAGGGACCATCCATGGAGCAGCTGGAACAGTATATGAAGACCTGAGGTATAAGCTCTCGCTAGAGTTCCCCAG
TGGCTACCCTTACAATGCGCCACAGTGAAGTTCCTCACGCCCTGCTATCACCCCAACGTGGACACCCAGGGTAA
CATATGCCTGGACATCCTGAAGGAAAAGTGGTCTGCCCTGTATGATGTCAGGACCATTCTGCTCTCCATCCAGAG
CCTTCTAGGAGAACCCAACATTGATAGTCCCTTGAACACACATGCTGCCGAGCTCTGGAAAAACCCACAGCTTT
TAAGAAGTACCTGCAAGAAACCTACTCAAAGCAGGTCACCAGCCAGGAGCCCTGAACCCAGGCTGCCAGCCTGTC
CTTGTCGTCGTCCTTTTAAATTTTTCCTTAGATGGTCTGTCCTTTTGTGATTTCTGTATAGGACTCTTATCTTGA
GCTGTGGTATTTTGTGTTTGTGTTTGTCTTTTAAATTAAGCCTCGGTTGAGCCCTTGTATATTAAATAAATGCAT
TTTGTCTCTTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5786

MASQNRDPAATSVAAARKGAEPSSGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYE
DLRYKLSLEFFSGYPYNAPT VKFLTPCYHPNVD TQGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNT
HAAELWKNPTAFKKYLQETYSKQVTSQEP

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FIGURE 5787

GAACCCGGCCGACCTCCATGGGCTGCGGGGGGCTGCACCCGGACCCCTGGGGCGCGGGCGCGCCCTGAATGCACC
GTGGGACGCAGGAGGGTGCCATGGCCTCCCGGCTCCTGCACCGGCTGCGGCACGCCCTTGCCCGGCGACGGCCCCG
GGGAGGCGGGCGGCCAGTCCAGAGGCCGAGCAGTTTCCGGAGAGCTCAGAGCTGGAGGACGACGACGCCGAGGGCC
TGTCCTCCCGACTCAGCGGCACCCCTCAGCTTCACAGCGCCGAGGACGACGAGGACGACGAGGACGAGGACGACG
AGGAGGCTGGCCCTGACCAGCTGCCCCTCGGGGATGGGACGTCAGGAGAAGACGCAGAACGGAGCCCCCACCTG
ATGGGCAGTGGGGCAGTCAGCTCCTGGCGCGGCAGCTGCAGGATTTCTGGAAGAAGTCCCGGAACACCTTGGCAC
CCCAGCGGCTGCTCTTGAAGTGACCAGCGCTAACGTTGTCAAGGACCCGCCCTCCAAGTACGTGCTCTACACCC
TCGCCGTGATCGGGCCAGGACCGCCAGATTGCCAGCCAGCCAGATCTCTCGCCGTTACTCGGACTTTGAGCGGC
TGCACCGAAACCTGCAGCGGCAATTCGGGGGCCAATGGCTGCCATCTCCTTCCCCCGTAAGCGGCTGCGCCGGA
ATTTTACTGCAGAGACCATTGCCCCGCGTAGCCGGGCCCTTTGAGCAGTTTTTGGGTACCTGCAGGCAGTGCCCTG
AGCTGCGCCATGCCCCGGACCTGCAGGACTTCTTCGTGCTGCCGGAGCTGCGGCGGGCACAGAGCCTCACCTGTA
CTGGCCTCTATCGTGAGGCTCTGGCACTCTGGGCCAATGCCTGGCAGCTGCAAGCCCAGCTGGGCACCCCCCTCTG
GCCAGACCGCCCCCTGCTGACCCTGGCTGGGCTGGCCGTGTGCCACCAGGAGCTGGAAGACCCTGGAGAGGCCC
GGGCATGCTGTGAGAAGGCCCTGCAGCTGCTTGGGGACAAGAGCCTCCACCCTTTGCTGGCACCCCTTTCTGGAGG
CCCATGTCCGGCTCTCCTGGCGCCTGGGCCTGGACAAACGTCAATCAGAGGCTCGGCTCCAAGCCCTGCAGGAGG
CAGGCCTTACCCCCACACCACCCCCAGTCTCAAAGAATTGCTCATCAAGGAGGTGCTGGACTAAACCCCTTGCCCTA
GATTTAAGGCCACTGTGAGGAGAGGGGTGCCCCAGAAGGCAGGGGAAGGACCTGATGAGAACAGAATAGCTGGG
AGGCTGCAGAGGCTGCTGGGAGCCCCTAGAAGTTCCAAAAGAGAATGTGAAGCAGATCAAGGAACTTCTGTGTA
GCTAGGCTCAGGGTGAGCTTTGGCTGGGGTTGCCCTTGTGTAGTACAGGGAACTCTGACACAGCCTCTCCAGCCT
ATAAACAGCCGGGGGGCTGTGGCACAGGTTGGGGCAATGTTCCCTTGTGTGGTGGGCCCCCAAGCTGGCAAGGCCT
CTTGGCTGAAGGCCAGGGACTCTGCCCCTGAGTCTTGAGTTAAGGGATGAAGGCAAGGCTGCAGGTCTGGCCC
AGGGGAATTAAAAGCCAGCCACTCC

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FIGURE 5788

MHRGTQEGAMASRL LHRLRHALAGDGPGEAAASPEAEQFPESSELEDDDAEGLSSRLSGTLSFTSAEDDEDDEDE
DDEEAGPDQLPLGDGTSGEDAERSPPPDGQWGSQLLARQLQDFWKKSRNTLAPQRLLFEVTSANVVKDPPSKYVL
YTLAVIGPGPPDCQPAQISRRYSDFERLHRNLQRQFRGPMAAISFPKRRLRRNFTAETIARRSRAFEQFLGHLQA
VPELRHAPDLQDFFVLPELRRASLTCTGLYREALALWANAWQLQAQLGTPSGPDRPLLTLAGLAVCHQELEDPG
EARACCEKALQLLGDKSLHPLLAPFLEAHVRLSWRLGLDKRQSEARLQALQEAGLTPTPPPSLKELLIKEVLD

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FIGURE 5789

GTGGCCGCGCTCGCCCCGATCCCCTGAGCTGCCCGCCATCCCACGTGACCGCGCCGCCCCCAGCTCCACCGCTG
AGCCCGCTCGCCATGGCCCTCTTCGGGGCCCTCTTCTAGCGCTGCTGGCAGGCGCACATGCAGAGTTCCCAGGC
TGCAAGATCCGCGTCACCTCCAAGGCGCTGGAGCTGGTGAAGCAGGAGGGGCTGCGCTTTCTGGAGCAAGAGCTG
GAGACTATCACCATTCCGGACCTGCGGGGCAAAGAAGGCCACTTCTACTACAACATCTCTGAGGTGAAGGTCACA
GAGCTGCAACTGACATCTTCCGAGCTCGATTTCAGCCACAGCAGGAGCTGATGCTTCAAATCACCAATGCCTCC
TTGGGGCTGCGCTTCCGGAGACAGCTGCTCTACTGGTTCTTCTATGATGGGGGCTACATCAACGCCTCAGCTGAG
GGTGTGTCCATCCGCACTGGTCTGGAGCTCTCCCGGGATCCCGCTGGACGGATGAAAGTGTCCAATGTCTCCTGC
CAGGCCCTGTGTCTCCAGAATGCACGCGCCTTCGGGGGAACCTTCAAGAAGGTGTATGATTTTCTCTCCACGTTT
ATCACCTCAGGGATGCGCTTCTCTCAACCAGCAGATCTGCCCTGTCTCTACCACGCAGGGACGGTCTGTCTC
AACTCCCTCCTGGACACCGTGCCTGTGCGCAGTTCTGTGGACGAGCTTGTGGCATTGACTATTCCCTCATGAAG
GATCCTGTGGCTTCCACCAGCAACCTGGACATGGACTTCCGGGGGGCCTTCTTCCCCCTGACTGAGAGGAACCTGG
AGCCTCCCCAACC GGCGAGTGAGCCCCAGCTGCAGGAGGAAGAGCGGATGGTGTATGTGGCCTTCTCTGAGTTC
TTCTTCGACTCTGCCATGGAGAGCTACTTCCGGGCGGGGGCCCTGCAGCTGTTGCTGGTGGGGACAAGGTGCC
CACGACCTGGACATGCTGCTGAGGGCCACCTACTTTGGGAGCATTGTCTGCTGAGCCCAGCAGTGATTGACTCC
CCATTGAAGCTGGAGCTGCGGGTCTGGCCCCACCGCGCTGCACCATCAAGCCCTCTGGCACCACCATCTCTGTC
ACTGCTAGCGTCACCATTGCCCTGGTCCCACCAGACCAGCCTGAGGTCCAGCTGTCCAGCATGACTATGGACGCC
CGTCTCAGCGCCAAGATGGCTCTCCGGGGGAAGGCCCTGCGCACGCAGCTGGACCTGCGCAGGTTCGGAATCTAT
TCCAACCATCTGCACTGGAGTCGCTGGCTCTGATCCCATACAGGCCCTCTGAAGACCATGCTGCAGATTGGG
GTGATGCCCATGCTCAATGAGCGGACCTGGCGTGGGGTGCAGATCCCCTACCTGAGGGCATCAACTTTGTGCAT
GAGGTGGTGACGAACCATGCGGGATTCTCACCATCGGGGCTGATCTCCACTTTGCCAAAGGGCTGCGAGAGGTG
ATTGAGAAGAACC GGCGCTGCTGATGTGAGGGCGTCCACTGCCCCCACACCGTCCACAGCAGCTGTCTGAGCCCTC
AATCCCCAAGCTGGCAGCTGTCAATCAGGACCCCAACCCCTCTCAGCCCTCTTTTCCCACATTCATAGCCTGTA
GTGCCCCCTCTAACCCCCAGTGCCACAGAGAAGACGGGATTTGAAGCTGTACCCAATTTAATCCATAATCAATC
TATCAATTACAGTCCGTCCACCACC

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FIGURE 5790

MALFGALFLALLAGAHAEFFPGCKIRVTSKALELVKQEGRLFLEQELETITITIPDLRGKEGHFYNNISEVKVTELQL
TSSELDLFPQQELMLQITNASLGLRFRRLLYWFFYDGGYINASAEGVSIRTGLELSRDPAGRMKVSINVSCQASV
SRMHAAFGGTFKKVYDFLSTFITSGMRFLNQQICPVLYHAGTVLLNSLLDTPVRSSVDELVGIDYSLMKDPVA
STSNLDMDFRGAFFPLTERNWSLPNRAVEPQLQEEERMVYVAFSEFFFDSESYFRAGALQLLLVGDKVPHDL
MLLRATYFGSIVLLSPAVIDSPLKLELRVLAPPRCTIKPSGTTISVTASVTIALVPPDQPEVQLSSMTMDARLSA
KMALRGKALRTQLDLRRFRIYSNHSALSLALIPLQAPLKTMLQIGVMPMLNERTWRGVQIPLPEGINFVHEVVT
NHAGFLTIGADLHFAKGLREVIEKNRPADVRASATPTPSTAAV

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FIGURE 5791

AGACACCTCTGCCCTCACCATGAGCCTCTGGCAGCCCCCTGGTCCTGGTGCTCCTGGTGCTGGGCTGCTGCTTTGC
TGCCCCCAGACAGCGCCAGTCCACCCTTGTGCTCTTCCCTGGAGACCTGAGAACCAATCTCACCAGCAGGCAGCT
GGCAGAGGAATACCTGTACCGCTATGGTTACACTCGGGTGGCAGAGATGCGTGGAGAGTCGAAATCTCTGGGGCC
TGCGCTGCTGCTTCTCCAGAAGCAACTGTCCCTGCCCGAGACCGGTGAGCTGGATAGCGCCACGCTGAAGGCCAT
GCGAACCCACCGGTGCGGGTCCCAGACCTGGGCAGATTCCAAACCTTTGAGGGCGACCTCAAGTGGCACCACCA
CAACATCACCTATTGGATCCAAAACCTACTCGGAAGACTTGCCGCGGGCGGTGATTGACGACGCCTTTGCCGCGC
CTTCGCACTGTGGAGCGCGGTGACGCCGCTCACCTTCACTCGCGTGTACAGCCGGGACGCAGACATCGTCATCCA
GTTTGGTGTCGCGGAGCACGGAGACGGGTATCCCTTCGACGGGAAGGACGGGCTCCTGGCACACGCCTTTCTCTCC
TGGCCCCGGCATTCAGGGAGACGCCCATTTCGACGATGACGAGTTGTGGTCCCTGGGCAAGGGCGTCGTGGTTCC
AACTCGGTTTGGAAACGCAGATGGCGCGGCCTGCCACTTCCCTTTCATCTTCGAGGGCGCTCCTACTCTGCCTG
CACCACCGACGGTCGCTCCGACGGCTTGCCCTGGTGCAGTACCACGGCCAACCTACGACACCGACGACCGGTTTGG
CTTCTGCCCCAGCGAGAGACTCTACACCGGGACGGCAATGCTGATGGGAAACCCTGCCAGTTTCCATTCTCTT
CCAAGGCCAATCCTACTCCGCCTGCACCACGGACGGTCGCTCCGACGGCTACCGCTGGTGCGCCACCACCGCCAA
CTACGACCGGGACAAGCTCTTCGGCTTCTGCCCGACCCGAGCTGACTCGACGGTGATGGGGGGCAACTCGGCGGG
GGAGCTGTGCGTCTTCCCTTCACTTTCTCTGGGTAAGGAGTACTCGACCTGTACCAGCGAGGGCCGCGGAGATGG
GCGCTCTGGTGCCTACCACTCGAAGTTTGACAGCGACAAGAAGTGGGGCTTCTGCCCGGACCAAGGATACAG
TTGTTCCTCGTGGCGGCGCATGAGTTCGGCCACGCGCTGGGCTTAGATCATTCCTCAGTGCCGGAGGCGCTCAT
GTACCCTATGTACCGCTTCACTGAGGGGGCCCCCTTGATAAGGACGACGTGAATGGCATCCGGCACCTCTATGG
TCCTCGCCCTGAACCTGAGCCACGGCCTCCAACCACCACACCGCAGCCACGGCTCCCCCGACGGTCTGCCC
CACCGGACCCCCCACTGTCCACCCTCAGAGCGCCCCACAGCTGGCCCCACAGGTCCCCCTCAGCTGGCCCCAC
AGGTCCCCCACTGCTGGCCCTTCTACGGCCACTACTGTGCCTTTGAGTCCGGTGGACGATGCCTGCAACGTGAA
CATCTTCGACGCCATCGCGGAGATTGGGAACCAGCTGTATTTGTTCAAGGATGGGAAGTACTGGCGATTCTCTGA
GGGACGGGGGAGCCGGCCGAGGGCCCTTCTTATCGCCGACAAGTGGCCCGCGCTGCCCGCAAGCTGGACTC
GGTCTTTGAGGAGCCGCTCTCCAAGAAGCTTTTCTTCTCTCTGGGCGCCAGGTGTGGGTGTACACAGGCGCGTC
GGTGCTGGGCCCCGAGGCGTCTGGACAAGCTGGGCCGCGGCTCTGGAGGTTGACGTGAAGGCGCAGATGGTGGATCC
CCGGAGCGCCAGCGAGGTGGACCGGATGTTCCCGGGGTGCCCTTGGACACGCACGACGTCTTCCAGTACCGAGA
GAAAGCCTATTTCTGCCAGGACCGCTTCTACTGGCGCGTGAGTTCCCGGAGTGAGTTGAACCAGGTGGACCAAGT
GGGCTACGTGACCTATGACATCCTGCAGTGCCCTGAGGACTAGGGCTCCCGTCCCTGCTTTGCAGTGCCATGTAAA
TCCCCACTGGGACCAACCCTGGGGAAGGAGCCAGTTTGCCGGATACAACTGGTATTCTGTTCTGGAGGAAAGGG
AGGAGTGGAGGTGGGCTGGGCCCTCTCTTCTCACCTTTGTTTTTGTGGAGTGTTCATAATAAACTTGGATTCT
CTAACCTTT

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FIGURE 5792

MSLWQPLVLVLLVLGCCFAAPRQRQSTLVLFPGDLRTNLTDRQLAEEYLYRYGYTRVAEMRGESKSLGPALLLLQ
KQLSLPETGELDSATLKAMRTPRCGVDPDLGRFQTFEGDLKWHHHNITYWIQNYSEDLPRAVIDDAFARAFALWSA
VTPLTFTRVYSRDADIVIQFGVAEHGDGYPPFDGKDGLLAHAFPPGPGIQGDAHFDDELWSLKGVVVPTRFNA
DGAACHFFFI FEGRSYSACTTDGRSDGLPWCSTTANYDTDDRFGFCPSERLYTRDGNADGKPCQFFFI FQGQSYS
ACTTDGRSDGYRWCATTANYDRDKLFGFCPTRADSTVMGGNSAGELCVFPFTFLGKEYSTCTSEGRGDGRLWCAT
TSNFDSDKKWGFCPDQGYSLFLVAAHEFGHALGLDHSSVPEALMYPMYRFTEGPPLHKDDVNGIRHLYGPRPEPE
PRPPTTTTPQPTAPPTVCPTGPPTVHPSERPTAGPTGPPSAGPTGPPTAGPSTATTVPLSPVDDACNVNIFDAIA
EIGNQLYLFKDGKYWRFSEGRGSRPQGPFLLIADKWPALPRKLDSVFEEPLSKKLFFFSGRQVWVYTGASVLGPRR
LDKLGLGADVAQVTGALRSGRGKMLLFSGRRLWRFDVKAQMVDPRSASEVDRMFPGVPLDTHDVFQYREKAYFCQ
DRFYWRVSSRSELNQVDQVGYVTYDILQCPED

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FIGURE 5793

ACTTCCGGTGGGGAGATTCCGGCCTGGAGCTCCCAGGGCCGAGCAGACCTTGGGACCTGTGAGCGCTGCATCCAA
TTAACCATGGGAAGGGTCAGCACCAGCCACCAGCCCCCTTAGGTGAGGACTCTGCCTGGGGCTCTGCTGATGGTTC
CGAATCATGGAGCTGCAGAGAGCTCCTCCAGCCTGGAGACGTTCTTGGTGAAAGCTGTGGTCTAACTCCACCGGC
TCTTCTGCACATTGTATTCAAGAGGGGTGCCTGCCCCCGCTGACTCAGGAGCTCCGGTGTGCAGCCGCCACGA
ATGGGGAGGTGGGCCCTCGATGTGGCCTTTTTGTGGAAGGCGGTGTTGACCCTGGGGCTGGTGTCTCTACTAC
TGCTTCTCCATCGGCATCACCTTCTACAACAAGTGGCTGACAAAGAGCTTCCATTTCCCCCTCTTCATGACGATG
CTGCACCTGGCCGTGATCTTCTCTTCTCCGCCCTGTCCAGGGCGCTGGTTCAGTGCTCCAGCCACAGGGCCCCGT
GTGGTGTGAGCTGGGCCGACTACCTCAGAAGAGTGGCTCCCACAGCTCTGGCGACGGCGCTTGACGTGGGCTTG
TCCAACCTGGAGCTTCTGTATGTACCGTCTCGCTGTACACAATGACCAAATCCTCAGCTGTCTCTTCATCTTG
ATCTTCTCTGATCTTCAAGCTGGAGGAGCTGCGCGCGGCACTGGTCTTGGTGGTCTCTCTCATCGCCGGGGGT
CTCTTCATGTTCACTACAAGTCCACACAGTTCAACGTGGAGGGCTTCGCCCTTGGTGTGGGGGCTCGTTCATC
GGTGGCATTGCTGGACCTCACCCAGATGCTCCTGCAGAAGGCTGAACCTCGGCCCTCCAGAATCCCATCGACACC
ATGTTCCACCTGCAGCCACTCATGTTCTGGGGCTCTTCCCTCTCTTTGCTGTATTTGAAGGTCTCCATTTGTCC
ACATCTGAGAAAATCTTCCGTTTCCAGGACACAGGGCTGCTCCTGCGGGTACTTGGGAGCCTCTTCTTGGCGGG
ATTCTCGCCTTTGGTTTGGGCTTCTCTGAGTTTCTCCTGGTCTCCAGAACCTCCAGCCTCACTCTCTCCATTGCC
GGCATTTTTAAGGAAGTCTGCACTTTGCTGTTGGCAGCTCATCTGCTGGGCGATCAGATCAGCCTCCTGAAGTGG
CTGGGCTTCGCCCTCTGCCTCTCGGGAATATCCCTCCACGTTGCCCTCAAAGCCCTGCATTCCAGAGGTGATGGT
GGCCCCAAGGCCTTGAAGGGGCTGGGCTCCAGCCCCGACCTGGAGCTGCTGCTCCGGAGCAGCCAGCGGGAGGAA
GGTGACAATGAGGAGGAGGAGTACTTTGTGGCCAGGGGCAGCAGTGACCAGCCAGGGCAAATGGCTTAGAAGCA
GGCCACTCCCCAGCCTGCTGCCAGCACTCACTGTGCTCAAGCCGCCAGGGCTCATCATGGTAGCTGGGAGCTGTG
GACGGGAGTCACCAGGTGGTGGGGCCAAGCCAGGGACTCATGACTTTTGCCCTCCCTTCAGAGCCTGGTTCACAC
AAGGGGCGAGCACCAGGCCAGCCTGGGACTGGCCAGAGCTGGGCCCCAAGCTGCGCTGGAATCGCAGCAGGAGAGG
GGAGTGGGCTGGTTCTTCCCACTTCCAGGCTCTGACAGCCGAGACTCATTTCCAAGGCACAGCAGCTTTCT
AAAGGGACTGAGTTTGGACTGGGTTTGGACCTCCAGGGGCTGGAGCTTCATCACCTGGGCAGTGTCTTTTCTCA
GAGAGCAGGTTTCTTTATAGTTTGGAAATAAATGGTTCACGGTCCACTGGCCGCCTTGTGTTGCTGGAGACGTGG
GGCAGGGAGGGGACAGTGTGGGCCTGGCCTCTCCTTTCCCTTCCCTGCTGGAGCCTTCTTCAAATGTCTGGTC
TTAAGCCAGGCCTCCTTCATTTTCTCGCTCCTGTAGAACACCAGTCCCTCCCCAGTGGGGCCCCACTGCACCT
GCTGGCAGGAAATAAATGAATGTTTACTGAGTACTGCA

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FIGURE 5794

GCGCGCTCTGCTCGGCTGCAGGCTCAGGAAGCGGCGGGCGGCACGTGCTGGGCCAGAGCCCCGCGCCCTGCGTC
CAGCCGCCGGGTGTGTGCGCCCGGTAGCCCAGCGTCGCGCCTCGGCGCCCCACGCGCCACGCAGCGGCGCGG
GGACCCGGGCGGGGCGAGGGAGGGCCCCGGCCAGGGAGGAGAAGGGGCGGGTCTCCCGGCGCAGGCAGCAGC
CGCGGCAGCCAGGAGCGGAGGCAGCGGCAACGGCAGAGACAGCAACGTGCCCCGCGCAGTCAGCCCGGCCTCG
TCGGACCCGCACCGGCCCGCCGCCCCGCGCCGCGCTCGGGGCGCCCTCTCCACTGCGCGCGGTACAAGGAAA
TGGTAGAACTAGTGATCTACCCAGCCTCACTGTAAACAGCGATTGTCTGGATAAACTGAAGTTTAACCGTGCTG
ACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCTGAGAGTGTCCAGCTCTTCT
CCAGATCTTGCCACGTGTCTCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGCCAGACGCAGTACAGTG
CGGGGATCCAGCAGGCTACCCCTATACAGCTTACCCACCTCCAGCACAAGCCTATGGAATCCCTTCCTACAGCA
TCAAGACAGAAGACAGCTTGAACCATCCCCCTGGCCAGAGTGGATTCTCTAGCTATGGCTCCAGCTTCAGCACCT
CACCCACTGGACAGAGCCCATACACCTACCAGATGCACGGCACAACAGGGTTCTATCAAGGAGGAAATGGACTGG
GCAACGCAGCCGGTTTCGGGAGTGTGCACAGGACTATCCTTCCCTACCCCGGCTTCCCCAGAGCCAGTACCCCG
AGTATTACGGCTCATCTACAACCTCCCTACGTCCCGGCCAGCAGCATCTGCCCTTCGCCCCCTCTCCACGTCCA
CCTACGTCTCCAGGAGGCATCTACAACGTCCCCAACAGAGTTCGAGTCACTTGCTGGTGAATACAACACAC
ACAATGGACCTTCCACACCAGCGAAAGAGGGAGACACAGACAGGCCGCACCGGGCCTCCGACGGGAAGCTCCGAG
GCCGGTCTAAGAGGAGCAGTGACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCGTGTGGGACTTGG
ATGAGACAATAATTATTTTCACTCCTTACTCACGGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGT
CCGTGCGCATTTGGCCTTATGATGGAAGAGATGATCTTCAACCTTGAGATACACATCTGTTCTTCAATGACCTGG
AGGATTGTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACCTTCT
CCGCTGACGGCTTCCACAGTTTCGGCCCCAGGAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGCGTGGACT
GGATGAGGAAGCTGGCCTTCCGCTACCGCGGGTGAAGGAGATGTACAATACCTACAAGAACAACGTTGGTGGGT
TGATAGGCACTCCCAAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCTCACAGACCTCTGGCTGA
CCCACTCCCTGAAGGCATAAACCTCATCAACTCCCGGCCAACTGTGTCAATGTGCTGGTCACCACCACTCAAC
TAATTCCTGCCCTGGCCAAAGTCCTGCTATATGGCCTGGGGTCTGTGTTTCTATTGAGAACATCTACAGTGCAA
CCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATTCGGCAGAAAAGCTGTCTACGTGGTGATCG
GTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAACATGCCTTTCTGGCGGATATCTGCCACGCAGACC
TGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATTTATAGCAGGATCAGCAGCATCTCCACCTGCCATCTCACC
CTCAGACCCCTCGCCTTCCCCACCTCCCCACCGAGAATCCAGAGACCCAGATGTTGGACACCAGGAAGGGGCC
CCACAGCCGAGACGAGCTGTCCAGTGACCATCTCAGAAGCCGTCCATCAGTCCAAATGGGGGTCTGAGAAGGAA
AGTACCCAACATTGGCTTCGGAGTATTTGACTTTGGGGAAAAGGGCTGGCTCGGAGTCTAGACTCTTCTGTAAGA
CTCACAGAACAAAAGCAAGGAATTGCTGATTTGGGGGGTGCCTGGTGTATGAGGAGGGGATGGGTTTGTCTTGTCT
TCTTTTAAATTTATGGAAGTCTCATTACTCCGGAATTATGCTCTTGTACCTGTGTGGCTGGGTTTCTTAGTCG
TTGGTTTGGTTTGGTTTGTGAAGTGGTATGTGGGGTGGTTACAGTTCTAATGTAAGCACTCTATTCTCCAAGT
TGTGCTTTGTGGGGACAATCATTCTTTGAACATTAGAGAGGAAGGCAGTTCAAGCTGTTGAAAAGACTATTGCTT
ATTTTGTTTTAAAGACCTACTTGACGTATGTGGACAGTGCACGTGCCCTACGCTACATCTTGTCTTCTAGGA
AGAGGGGGATGCTGGGAAGGAATGGGTGCTTTGTGATGGATAAAAGGCATTAAATAAAACCACGTTTACATTTTG

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FIGURE 5795A

CGGCGCCGCGCGGCCGCGCTAGAATGGAGGCGCCAGCGGCAGCGAGCCCGGCGGCGACGGGGCCGGGGACTGCG
CCCACCCGGACCCCGGGCCCCCTGGCGCCGCGGGCGCCAGCTCCGGCCCCGGCCCGTGC CGCGGCCGCCCGGGAGT
CCGAGCGCCAGCTGCGCCTCCGCCTCTGCGTCTCAACGAGATCTTGGGCACCGAGAGGGACTACGTGGGCACCT
TGC GCTTCTTGCACTCGGCATTCTGTCATCGCATCCGGCAGAACGTGGCCGACTCAGTGGAGAAGGGCCTCACGG
AGGAGAATGTCAAGGTCTGTCTCTCGAACATCGAAGACATCCTGGAAGTTTATAAGGATTTCTTGGCCGCTTGG
AGTATTGTTTACCCCGGAGCCGAGTCTCAGCATGAACTTGGGAATGTTTTCTTAAATTCAAGGACAAGTTCT
GCGTGTACGAGGAGTATTGCAGCAACCATGAGAAAGCCCTGAGGCTGCTGGTGGAGCTGAACAAGATCCCTACCG
TGC GCGCCTTCTTTTGAAGCTGTCATGCTTCTGGGAGGCCGGAAGACCACGGACATCCCTTTGGAAGGCTACCTGT
TGTCTCCGATCCAGAGGATCTGCAAGTACCCGCTCCTCCTTAAGGAGCTGGCCAAGAGGACTCCCGGCAAGCACC
CAGACCACCCCGCGGTCCAGAGTGCCCTGCAGGCCATGAAGACCGTTTGCTCCAACATCAATGAGACCAAGCGGC
AGATGGAGAAGCTGGAAGCCCTGGAGCAGCTGCAGTCCCACATCGAAGGCTGGGAGGGTTCCAACCTCACAGACA
TCTGCACTCAGTCTCTCTGCAAGGGACTTTGTTAAAGATCTCTGCGGGCAACATCCAGGAAAGGGCCTTCTTCC
TCTTCGACAACCTTCTCGTCTACTGCAAGCGGAAATCCAGGGTCACCGGGAGCAAGAAGTCCACCAAGAGGACCA
AATCCATCAACGGCTCCCTCTACATCTTCAGGGGTGCAATCAACACTGAAGTCAATGGAGGTGGAGAATGTGGAAG
ATGGGACAGCGGATTACCATAGCAACGGCTATACCGTCACCAACGGCTGGAAGATCCACAACACGGCCAAGAATA
AGTGGTTTGTCTGCATGGCCAAGACGGCAGAGGAGAAGCAGAAGTGGCTGGATGCCATCATCCGCGAGCGGGAGC
AGCGCGAGAGCCTGAAGCTGGGCATGGAGCGTGATGCCTACGTCTATGATTGCGGAGAAGGGGGAGAAGCTGTACC
ACATGATGATGAACAAGAAGGTGAACCTCATCAAGGACCGCCGGAGAAAGCTGAGCACTGTCCCAAGTGCTTTC
TTGGCAATGAGTTGCTTGCCTGGCTCCTAGAAATTGGTGAAATCAGCAAGACGGAAGAAGGAGTCAACTTGGGCC
AAGCCCTGTTGGAGAATGGCATCATCCACCATGTTTCCGACAAGCACCAGTTCAAGAATGAGCAGGTGATGTATC
GCTTCCGCTACGACGATGGCACCTACAAGGCCCGAAGTGAGCTGGAGGACATCATGTCCAAGGGTGTGAGGCTTT
ACTGCCGTCTTACAGCCTCTACACCCCGGTGATCAAAGACCGTGATTACCACCTGAAGACCTACAAGTCAGTGC
TTCCCGGGAGCAAGCTGGTGGACTGGCTGCTGGCTCAGGGAGACTGCCAGACTCGGGAGGAGGCAGTGGCGCTCG
GCTGGGTTCTGTGCAACAATGGCTTCATGCACCACTGCTGAGAGAGAGCGAGTTTCAAGGATGAGTCCCACTACT
TCCGCTTTCATGTCAGGAGGATGGAGGGGACCAGCAGCAAGAACAACAGCTTCGCAACGACTTCAAGCTGG
TGGAGAACATTCTGGCCCAAGCGCCTGCTGATCTGCCCCAGGAGGAGGACTATGGCTTTGACATCGAGGAGAAGA
ACAAGGCTGTGGTGGTGAAGTCCGTCCAGAGGGGCTCGCTGGCTGAGGTGGCTGGCCTGCAGGTGGGGAGGAAGA
TCTACTCCATCAATGAGGACCTGGTGTCTGCGGCCGTTTTTCAGAGGTGGAGTCCATCCTCAACCAGTCTTCT
GCTCCCGCCGCCCTCTGCGCCTCCTGGTGGCCACGAAGGCCAAAGAGATCATCAAAATCCCCGACCAGCCGGACA
CACTGTGCTTCCAGATTCTGAGGCTGCCCCACCGTACGTCTATGCTGTGGGGAGAGGCTCTGAGGCCATGGCTG
CAGGGCTCTGTGCTGGTCAGTGCATTCTGAAGGTCAATGGCAGCAACGTGATGAACGATGTGCCCCCTGAGGCTCC
TGGAGCACTTCCAGGCATTCCGGAGTGGCGCGAAGAGGCCCTGGGCCTGTACCAGTGGATCTACCAACCCATG
AGGATGCCCAGGAAGCACGAGCCAGTCAAGAGGCCCTCCACTGAGGACCCAGTGGCGAGCAGGCCCAGGAGGAAG
ACCAGGCTGATTACGCCTTCCCACTGCTGTCCCTGGGTCCCCGGCTGAGCCTGTGTGAGGACAGCCCCATGGTCA
CCCTGACTGTGGACAACGTGCACCTGGAACACGGCGTGGTGTATGAGTATGTGAGCACGGCAGGCGTCAGGTGCC
ATGTGCTGGAGAAGATCGTGGAGCCCCGCGGCTGCTTCGGCCTCACCGCCAAGATCCTCGAGGCCTTTGCTGCCA
ATGACAGCGTCTTCGTGGAGAACTGCAGGCGGCTCATGGCCCTGAGCAGCGCCATCGTGACCATGCCCCACTTTG
AGTTCCGCAACATCTGTGACACCAAGCTGGAGAGCATTGGCCAGAGGATTGCCTGCTACCAGGAGTTTGCAGCCC
AACTGAAGAGCAGGGTCAGCCACCCCTTCAAACAAGCCCCCTGGAGCCCCACCCGCTGTGTGGCCTGGACTTCT
GCCCCACCAATTGCCACATCAACCTCATGGAAGTGTCTACCCCAAGACCACCCCTCAGTGGGCAGGTCTTTCA
GCATCCGCTTTGGACGCAAACCTCCCTCATCGGCCTTGACCCGGAGCAAGGCCACCTGAACCCCATGTGCTACA
CCCAGCACTGCATCACCACCATGGCTGCTCCCTCCTGGAAGTGTTCCTGCTGTCAGAGGGTGATCCCCAAGGCC
AGGGTCTCCATGATGGCAGCTTCGGGCCAGCCAGTGGGACCCCTTGGTCAGGAAGACCGGGGCCTCAGCTTCTAC
TCAAGCAGGAGGACCGTGAGATCCAGGATGCCTACCTGCAGCTCTTCAACCAAGCTGGATGTGGCCCTGAAGGAGA
TGAAGCAATATGTACCCAGATCAACAGGCTGCTGTCCACCATCACAGAGCCACCTCGGGTGGGTCTGCGACG
CATCCTTGGCTGAGGAGGCCTCCTCCCTGCCCCCTGGTCAGTGAAGAGAGCGAGATGGACAGGAGTGACCATGGGG
GCATCAAGAAGGTGTGCTTCAAGGTGGCCGAGGAGGACCAGGAGGACTCAGGCCACGACACCATGAGTTATCGCG
ACTCCTACAGCGAGTGTAACAGCAATCGAGACTCGGTCTGTCTTACACCAGCGTGAGAAGTAACAGCTCCTACT

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FIGURE 5795B

TGGGCAGCGACGAGATGGGGTCTGGAGATGAGCTGCCCTGTGACATGCGGATCCCATCTGACAAGCAGGACAAGC
TTCATGGCTGCCCTGGAGCACCTCTTTAACCAGGTGGACTCCATCAATGCTCTCCTCAAGGGGCCAGTCATGAGCC
GGGCTTTTGAAGAGACCAAGCATTTCCTATGAACCACAGCTTACAAGAGTTTAAACAGAAAGAAGAGTGTACAA
TCCGTGGCCGGAGCCTGATCCAGATTAGCATCCAGGAGGACCCCTGGAACCTCCCCAACTCCATCAAGACCCTGG
TGGACAACATTTCAGAGATATGTGGAAGATGGGAAGAACCAGCTGCTCCTGGCCTTGCTGAAGTGCACAGACACGG
AGCTGCAGCTGCGCAGAGACGCGATCTTCTGCCAGGCCCTGGTGGCCGCCGTGTGCACCTTCTCCAAGCAGCTGC
TGGCGGCCCTGGGCTACCGCTACAACAACAATGGCGAGTACGAGGAGAGCAGCCGCGACGCCAGCCGCAAGTGGC
TGGAGCAGGTGGCGGCCACGGGCGTCTGTGCTGCACTGCCAGTCCCTGCTCTCGCCAGCCACAGTGAAGGAGGAAC
GGACCATGTGAGGACATCTGGGTGACGCTGTGAGAGCTGGACAATGTACCTTCTCCTTTAAGCAGCTGGACG
AGAACTATGTGGCCAACACCAACGTCTTCTACCACATTGAGGGCAGCCGGCAGGCGCTGAAGGTATCTTCTACC
TCGACAGCTACCACTTCTCCAAGCTGCCCTCCCGCCTGGAGGGTGGGGCCAGCCTGAGGCTGCACACAGCGCTGT
TCACGAAAGTGCTGGAGAACGTGGAGGGGCTGCCTTCTCCAGGCAGCCAGGCCGCGGAGGATTTGCAGCAGGACA
TCAACGCGCAGTCCCTGGAGAAAGTTCAGCAGTATTACCGCAAACCTCAGGGCATTTTACCTGGAGCGGTCTAACCC
TGCCACGGATGCCAGCACACGGCGGTAAAGATAGACCAGCTGATCCGCCCATCAATGCCCTGGATGAGCTCT
GCCGCTCATGAAGTCTTTGTCCACCCAAAGCCTGGTGTGCTGCTGGGAGTGTGGGCGCCGGCCTCATCCCCATCT
CCTCGGAGCTCTGCTACCGCCTGGGGGCTGCCAGATGGTCATGTGTGGCACAGGCATGCAGAGGAGCACCTGA
GCGTGTCCCTGGAGCAGGCGGCCATCTTGGCACGGAGCCACGGGTGTGCTGCCAAAGTGCATCATGCAGGCCACGG
ACATCATGCGGAAGCAGGGCCCAAGGGTGGAGATTCTGGCCAAAACCTGCGAGTCAAGGACCAGATGCCCCAGG
GTGCTCCGCGCCTCTACCGCCTCTGCCAGCCGCCGGTGGATGGGGACCTCTGAACACCCAAATGCCCCACGCTGG
GCCGCGCCTCTGGAGCTGGGATTGGGAGGACACAGCAGGCAGCGCTGGCCACCCTCGCTGTGATGACGAGCTG
GCTGATTGGCCCTGGGCGCGCCATTCTTACACGCCTGCCAGAAGCTGGAGGGGTGCTGGAGACCCATAGAGCT
GATGGGAGCAGCTGGTGCCTGGCCTTCGGCTCCTGCGTCCCCAGAACCACAGGGAACGTATGGAGGCCACATGG
GGCACCCGGCTCCCTCGGGATGGCTCCGCTGCACTTTTGAACCCCGGTTTCTTCAACGTCCACATTCCAGG
TGACCACCGGTGTCTCCTCCTCCTCATCTTAGCTTCCAGGTTACCCTAACCTGTACTAACCTGCTTGGTGGAC
TTGAAAAAGACTTGGCTCTGTTCGGGAAAGGAGAGACGGGGCCTCCATCACGCTGTTACCAGAGGATCCCCGAGA
GCCACACCAGCTCTGGACATCACCGCCCTGGAACCTGGGGCCACCAGCCCTGGGCACGAGATTGCTCTGACTTT
ATTTATATGGCATGAAATCTCTGGTTTATTTTGGGATTTTTTGTGTTGGTGTGTCAAAGTTGTTTTTTCTAA
AGTTGTGTGATTATATATTTGACATTTTACATTTCAAAGAAAGGTATGTTGTCTAACAGGGGACCAACAGAAGGT
AGTATTGACAACGTGTTCTGCTTCTACTAAAAAAGAGCACAAAAGAAAACTAAATTATTGAAAAATTAA
AAAATGTCATTGTTTCTGTTTGTAAATATTAGGGTTGTAAGGTGTCGTTTTGAGGTATCGACTGTGATTCTTCC
CCCACCTCCATTCTCCAGCGGTTGGCCGGTGTAGAAGTCTGCTCTTTGAGTGACTGGCTACAAGGGCCTGAG
AGGTGGCCAGCCAGGGTTGGAGCTGGAGGGGATGGAGCCCCACCTGAGGTGCCGTGTACACGGGTTAGAGGGTC
ACTGGGAAACACCGGGCGGTGGCTTCTGTGATTTATTTTCTTGATGGTAACCTCTCAGAGCAGGGCGATTGGGAC
ATCACCAGCCAGAGCACAGGAAGCCACCCTGCCTGCTGGGGAGGAGGACCCACACAAGCCCCCTCGGCAGTTTG
TCCCCCAGCTTCGGTATGCCTTCAGGGAAAGGTACAGCTGGGGAGGAAGCGGGGGACGCTGTACCCCTGG
CAGGTGGTGAGTTCAGGTGGGGGCTCCCTGCTGCCCCAGGCCCTGGGAGCTTGAAGCCCTCCCGCATCTGGCAT
CCGAGCCTCCCGCCTCCAGGGTGCCTTCCCTCTCTTGCCGACGATACACGAGGGCAGGCAGTGGCCTTGTCA
CTGTATCTTGCATCAGAGACAAAGGAGGACCGCTTTAGCCCTGCTGCGGGAATGGGGGAGGGCCAGGGCCAG
CGCATTGTGCACTGGTTTACTTTAAATGTACAGATTCTTCTCGTTAAATCTTGATAGATTTTTTATTATTATT
AAAAGTCAGTTTATAATAC

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FIGURE 5796A

GCATTCCTGGCCCCGCCCCCTGCAGCGGGCCGCTCGCTCATGCGCTCTGGCCTCAGGCTCGCTGTGCGGCCATTT
TGCCGGGGTTTGAATGTGAGGCGGAGCGGGCGGCAGGAGCGGGTAGTGCCAGCTACGGTCCGCGGCTGGGGTTCCC
TCCTCCGTTTCTGTATCCCCACGAGATCCTATAGCAATGGAACCTCAGCGATGCAAATCTGCAAACACTAACAGAA
TATTTAAAGAAAAACACTTGATCCTGATCCTGCCATCCGACGTCCAGCTGAGAAATTTCTTGAATCTGTTGAAGGA
AATCAGAATTATCCACTGTTGCTTTTGACATTACTGGAGAAGTCCCAGGATAATGTTATCAAAGTATGTGCTTCA
GTAACATTCAAAAACTATATTTAAAGGAACCTGGAGAATTGTTGAAGATGAACCAAAACAAAATTTGTGAAGCCGAT
CGAGTGGCCATTAAAGCCAACATAGTGCACTTGATGCTTAGCAGCCCAGAGCAAATTCAGAAGCAGTTAAGTGAT
GCAATTAGCATTATTGGCAGAGAAGATTTTCCACAGAAATGGCCTGACTTGCTGACAGAAATGGTGAATCGCTTT
CAGAGTGGAGATTTCCATGTTATTAATGGAGTCTCCGTACAGCACATTCATTATTTAAAGATACCGTCATGAA
TTTAAGTCAAACGAGTTATGGACTGAAATTAAGCTTGTTCTGGATGCCTTTGCTTTGCCTTTGACTAATCTTTTT
AAGGCCACTATTGAACTCTGCAGTACCCATGCAAATGATGCCTCTGCCCTGAGGATTCTGTTTTCTTCCCTGATC
CTGATCTCAAAATGTTCTATAGTTTAACTTTTCAGGATCTCCCTGAATTTTTTGAAGATAATATGGAACTTGG
ATGAATAATTTTCACTCTCTTAACATTGGATAATAAGCTTTTACAACTGATGATGAAGAGGAAGCCGGCTTA
TTGGAGCTCTTAAATCCCAGATTTGTGATAATGCCGCACTCTATGCACAAAAGTACGATGAAGAATTCCAGCGA
TACCTGCCTCGTTTTGTTACAGCCATCTGGAATTTACTAGTTACAACGGGTCAAGAGGTTAAATATGATTGTTG
GTAAGTAATGCAATTCAATTTCTGGCTTCAGTTTGTGAGAGACCTCATTATAAGAATCTATTTGAGGACCAGAAC
ACGCTGACAAGTATCTGTGAAAAGGTTATTGTGCCTAACATGGAATTTAGAGCTGCTGATGAAGAAGCATTGAA
GATAATTCTGAGGAGTACATAAGGAGAGATTTGGAAGGATCTGATATTGATACTAGACGCAGGGCTGCTTGTGAT
CTGGTACGAGGATTATGCAAGTTTTTTGAGGGACCTGTGACAGGAATCTTCTCTGGTTATGTTAATCCATGCTG
CAGGAATACGCAAAAAATCCATCTGTCAACTGGAACACAAAGATGCAGCCATCTACCTAGTGACATCTTTGGCA
TCAAAAGCCCCAACACAGAAGCATGGAATTACACAAGCAAATGAACCTGTAAACCTAACTGAGTTCTTTGTGAAT
CACATCCTCCCTGATTTAAATCAGCTAATGTGAATGAATTTCTGTCTTAAAGCTGACGGTATCAAATATATT
ATGATTTTGTAGAAATCAAGTGCCAAAAGAATCTTTTAGTCTCGATTCTCTCTTGTATTAATCATCTTCAAGCT
GAAAGTATTGTTGTTTCACTTACGCAGCTCATGCTCTTGAACGGCTCTTACTATGCGAGGGCCTAACAAATGCC
ACTCTCTTTACAGCTGCAGAAATCGCACCCTTTGTTGAGATTCTGCTAACAAACCTTTTCAAAGCTCTCACACTT
CCTGGCTCTTCAGAAATGAATATATTATGAAGCTATCATGAGAAGTTTTCTCTCTTACAAGAAGCCATAATC
CCCTACATCCCTACTCTCATCACTCAGCTTACAGAGAAGCTATTAGCTGTTAGTAAGAACCACAAAGCTCAC
TTTAATCACTACATGTTTGAAGCAATATGTTTATCCATAAGAATAAAGTGAAGCTAACCTGCTGCTGTTGTA
AATTTTGAAGGAGGCTTTGTTTTTGGTGTCTTACTGAAATCTTACAAAATGATGTGCAAGAATTTATCCATACGTC
TTTCAAGTGATGCTTTGCTTCTGGAACACACAAAATGACATCCCGTCTTCTATATGGCCTTATTTCTCTCAT
CTCCTTCAGCCAGTGCTTTGGGAAAGAACAGGAAATATTCTGCTCTAGTGAGGCTTCTTCAAGCATTCTTAGAA
CGCGGTTCAAACACAATAGCAAGTGCTGCAGCTGACAAAATTCCTGGGTACTAGGTGCTTTTTCAGAAAGCTGATT
GCATCCAAAGCAAATGACCACCAAGGTTTTTATCTTCTAAACAGTATAATAGAGCACATGCCTCCTGAAGCTAGTT
GACCAATATAGGAAACAAATCTTCACTTCTGCTATTCCAGAGACTTCAGAATTCAAAAACAACCAAGTTTATCAAG
AGTTTTTTAGTCTTTATTAATTTGTATTGCATAAAATATGGGGCACTAGCACTACAAGAAATATTTGATGGTATA
CAACCAAAAATGTTTGAAGTGGTTTTGGAAAAAATTATTATCTGAAATTCAGAAGGTATCTGGAAATGTAGAG
AAAAAGATCTGTGCGGTTGGCATAACCAAAATTACTAACAGAATGTCCCCCAATGATGGACACTGAGTATACCAAA
CTGTGGACTCCATTATTACAGTCTTTGATTGGTCTTTTTGAGTTACCCGAAGATGATACCATTCTGATGAGGAA
CATTTTTATTGACATAGAAGATACACCAGGATATCAGACTGCCCTTCTCACAGTTGGCATTGCTGGGAAAAAGAG
CATGATCCTGTAGGTCAAATGGTGAATAACCCCAAAATTCACCTGGCACAGTCACTTACAAGTTGTCTACCGCC
TGTCCAGGAAGGGTTCCATCAATGGTGAGCACCAGCCTGAATGCAGAAGCGCTCCAGTATCTCCAAGGGTACCTT
CAGGCAGCCAGTGTGACACTGCTTTAACTGCATTTTCTAATGGGCTAAACCCAGATGGTTTCTAGGAAATCA
CAGGCTTCTGAGCACAGCTGCATTAAACAAAGGAAGTTCTCCTTTTGAACCTGTACGAATTCATCTTGTA
GGATATTAATGTTGCTTTAACCTGAACCTTGAGCAAATTAGTTGGTTTGTGTGATCATACAGTTATGTGGGTGG
CTTCTAGTTTGAACCTTCAAGGGACAAGTATTAATAGTTTCAAGTGTATGGCGTTGGTTTGTGTTGAGCGTTTGCAC
GGTTTGGATAATCTTAAATTTTACGGACACTGTGGAGACTTCTGTTACTAAATCCTTTTGTGTTTGAAGCTGTT
GCTATTTGTATTTCTTGTCTTTATATTTTTTGTCTGTTTATTTACGCTTTTATTGGAAATGTGAATAAGTAA
AGAATTACTTGTGTTACTTGCCAAGCAGTGCACATTCATAGTTTCAAATCTGTAATCAGCAATAAAAAATCCTAA

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FIGURE 5796B

AATATGTACCT

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FIGURE 5797

MELSDANLQTLTEYLKKTLDPDPAIRRPAAEKFLSVNEGNNQNYPLLLLLTLLEKSQDNVIKVCASVTFKNYIKRNWR
IVEDEPNKICEADRVAIKANIVHMLSSPEQIQKQLSDAISIIIGREDFPQKWPDLLEMVNRFSQSGDFHVGVL
RTAHSLEFKRYRHEFKSNELWTEIKLVLDALPLTNLFKATIELCSTHANDASALRILFSSLILISKLFYSLNFQ
DLPEFFEDNMETWMNNFHTLLTLDNKLLQTDDEEEAGLLELLKSQICDNAALYAQKYDEEFQRYLPRFVTAIWNL
LVTTGQEVKYDLLVSNAIQFLASVCERPHYKNLFEDQNTLTSICEKVIVPNMEFRAADEEAFEDNSEEYIRRDLE
GSDIDTRRRAACDLVRGLCKFFEGPVTGIFSGYVNSMLQEYAKNP SVNWKKHDAAIYLVTSLSAKAQTKKHGITQ
ANELVNLTEFFVNHILPDLKSANVNEFPVLKADGIKYIMIFRNQVPKEHLLVSIPLLINHLQAESIVVHTYAAHA
LERLFTMRGPNNATLFTAAEIAPFVEILLTNLFKALTLPGSSENEYIMKAIMRSFSLQEAIIPIPTLITQLTQ
KLLAVSKNP SKPHFNHYMFEAICLSIRITCKANPAAVVNFEELFLVFTEILQNDVQEFIPYVFQVMSLLETHK
NDIPSSYMALEFPHLLQPVWERTGNIPALVRLLOAFLEGRSNTIASAAADKIPGLLGVFQKLIASKANDHQGFYL
LNSIIEHMPPEVDQYRKQIFILLFQRLQNSKTTKFIKSFLVFINLYCIKYGALALQEIFDGIQPKMFGMVLEKI
IIPFIQKVSNGVEKKICAVGITKLLTECPPMMDTEYTKLWTPLLQSLIGLFELPEDDTIPDEEHFIDIEDTPGYQ
TAFSQLAFAGKKEHDPVGMVNNPKIHQAQSLHKLSTACPRVPSMVSTSLNAEALQYLQGYLQAASVTLL

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FIGURE 5798

AAGTGACGCATGGTACTTGCGCAAAGACGACGAGGAGGCTGCGAAAAGTTAAGGGCCGGACCGCAGGCTGTGCTC
GCTTCCGGAAGTGGCTTCTGCGACAACATGCTTGCGGACCTCGGCTTAATCGGAACCATAGGCGAGGATGACGAG
GTGCCGGTGGAGCCCGAGTCTGACTCCGGGGACGAGGAAGAGGAGGGGCCCATTTGTGCTGGGCAGACGACAAAAA
GCTTTGGGGAAGAACCAGTGTGATTTCAACCCTGATTTTCGTTTTCTGAGAAAGGAGGGGACGTACGATGGC
AGCTGGGCCCTGGCTGATGTCATGAGCCAACCTCAAGAAGAAGAGGGCAGCCACTACATTAGATGAGAAGATTGAG
AAAGTTCGAAAGAAAAAGGAAAAACAGAGGATAAAGAAGCCAAGTCTGGGAAGTTGGAAAAGGAGAAAGAAGCAAAG
GAAGGCTCTGAACCAAAGGAGCAGGAAGACCTTCAAGAGAATGATGAGGAAGGCTCAGAAGATGAAGCCTCGGAG
ACTGACTACTCATCAGCTGATGAGAACATCCTCACCAAAGCAGATACACTCAAAGTAAAGGATCGGAAGAAGAAG
AAGAAGAAAGGACAGGAAGCAGGAGGATTTTTTGAAGATGCATCTCAGTACGATGAAAACCTCTCGTTCCAGGAC
ATGAACCTTTCCCGCCCTCTTCTGAAGGCCATTACAGCCATGGGCTTCAAGCAGCCCACCCCGATCCAGAAGGCG
TGCATACCTGTGGGTCTATTGGGGAAGGACATCTGTGCCTGTGCAGCCACTGGGACAGGTAAACTGCCGCCTTT
GCCCTGCCTGTTTTGGAGCGTCTGATTTATAAACCCCGCCAGGCTCCAGTCACCCGCGTGCTGGTGCTAGTGCCC
ACCCGAGAGCTGGGCATCCAGGTGCACTCTGTCAACAGACAGCTGGCCAGTTCTGCAACATCACCACCTGCCTG
GCTGTGGGCGGCTTGATGTGAAGTCTCAGGAAGCAGCTCTTCGGGCAGCGCTGACATCCTCATCGCCACCCCA
GGCCGGCTCATCGATCACCTCCACAACCTGCCCTTCCTTCCACCTGAGCAGCATCGAGGTGCTCATCCTGGACGAG
GCTGACAGGATGCTGGATGAGTACTTTGAGGAGCAGATGAAGGAGATCATCCGAATGTGTTCCCAACCCGCCAG
ACCATGCTCTTCTCGGCCACCATGACAGACGAGGTGAAAGATCTGGCTTCTGTCTCCTTGAAGAATCCTGTCCGG
ATATTTGTGAACAGCAACACAGATGTGGCTCCCTTCCTGCGGCAGGAGTTCATCCGGATCCGGCCTAATCGTGAA
GGAGACCGGGAAGCCATCGTGGCAGCTTTGTTGACGAGGACCTTCACTGACCATGTGATGCTGTTACGCAAAACC
AAGAAGCAGGCCCCACCGCATGCACATCCTCCTGGGGCTCATGGGGCTGCAGGTGGGTGAGCTCCATGGCAACTTG
TCACAGACGCAGCGGCTGGAGGCCCTCCGGCGTTTTAAGGATGAACAGATTGACATCCTCGTGGCCACTGATGTG
GCAGCCCGTGGACTTGACATTGAGGGGGTCAAAACGGTAATCAACTTCACAATGCCTAATACCATCAAACATTAT
GTCCACCGGGTGGGGCGAACAGCAGCAGTGTGTCAGGGCTGGGCGCTCAGTCTCTCTGGTGGGAGAAGATGAGCGG
AAGATGCTGAAGGAGATTGTAAAAGCTGCCAAGGCCCTGTGAAGGCCAGGATACTTCCCAAGATGTCATCCTC
AAATTCCGGGACAAGATTGAGAAAATGGAGAAAGATGTGTATGCAGTTCTGCAGCTAGAGGCGGAGGAAAAAGAG
ATGCAGCAGTCAGAAGCCCAGATCAATACAGCAAAGCGGCTCCTGGAGAAGGGGAAGGAGGCAGTGGTCCAAGAG
CCCAGAGAGGAGCTGGTTCCAGACCAAAGAAGAGAGGAAGAAGGAGAAAATTGCCAAAGCTCTGCAGGAATTTGAC
TTGGCCTTAAGAGGAAAGAAGAAAAGGAAGAAGTTTATGAAGGATGCCAAAAAAGGGGGAGATGACAGCAGAG
GAAAGGTCTCAGTTTGAAATCCTCAAGGCGCAGATGTTTGCTGAACGGCTAGCGAAGAGGAATCGCAGAGCCAAG
CGGGCCCCGAGCAATGCCCGAGGAGGAGCCAGTGAGAGGTCTGCCAAGAAGCAAAAGCAGGGGAAGAAATCTGTA
TTTGATGAAGAACTACCAACACAAGCAAGAAGGCCCTGAAACAGTATCGAGCTAGCCCTTCCTTTGAAGAAAGG
AAACAGTTGGGCTTGCCCCACCAGAGACGAGGAGGAACTTTAAATCTAAATCCAGATACAAGAGGAGGAAGTAG

CTGTGCTGGCCTGAAGAAATTCATGGGGGCAGCCCTTAAATCCCTTCCCTGTGGGAAGTCATCCTGGCTGGTCTG
TCTTTTCTCCATTTGTTTAAAAAACAACAAACAAACACTTTGGTGTGGTGGTATGGTACGTAGCTA
TTTTCTAAGCATGTCTGTCAATCTCCCTTCTGTGATTAGCTTTTCATATGACTATATTAAATGGAAGTATTTT
TGGGAAAAGAGAAACCAAAAAAAAAAAAAAAAAA

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FIGURE 5799

MVLAQRRRGCEKLRAGPQAVLASGSGFCDNMLADLGLIGTIGEDDEVPVEPESDSGDEEEEGPIVLGRRQKALG
KNRSADFNPDFVFTEKEGTYDGSWALADVMSQLKKKRAATTLDEKIEKVRKKRKTEDKEAKSGKLEKEKEAKEGS
EPKEQEDLQENDEEGSEDEASETDYSSADENILTKADTLKVDRKKKKKKKGQEAGGFEDASQYDENLSFQDMNL
SRPLLKAITAMGFKQPTPIQKACIPVGLLGKDICACAATGTGKTAALFALPVLERLIYKPRQAPVTRVLVLPVPTRE
LGIQVHSVTRQLAQFCNITTCLAVGGLDVKSQEAALRAAPDILIATPGRLIDHLHNCPSFHLSSIEVLILDEADR
MLDEYFEEQMKEIIRMCSSHRTMLFSATMTDEVKDLASVSLKNPVRI FVNSNTDVAPFLRQEFIRIRPNREGDR
EAI VAALLTRTFTD HVM LFTQT K KQAH RMHILLGLMGLQVGELHGNLSQTQRLEALRRFKDEQIDILVATDVAAR
GLDIEGVKTVINFTMPNTIKHYVHRVGRTARAGRAGRSVSLVGEDERKMLKEIVKAAKAPVKARILPQDVILKFR
DKIEKMEKD VYAVLQLEAEEKEMQQSEAQINTAKRLLEKGKEAVVQEPERSWFQTK EERKKEKIAKALQEFDLAL
RGKKKRRKKFMKDAKKKGEMTAEERSQFEILKAQMFAERLAKRNRRAKRARAMPEEEPVRGPAKKQKQGKKS VFDE
ELTNTSKKALKQYRASPSFEERKQLGLPHQRRGGNFKSKSRYKRRK

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FIGURE 5800

GAAAATGATCTCCAAAAGATTTCTCAGCAAGGCAGATTTACTTCTGCAGAATGGTGCTGCTTGCACCTCCTGGTCA
CAGTGAGAGCACCCTCGAACAAAGGAGGTGAAGTGGTTTTATCCCTAACACAGCTAGTTCCTGCTTCTGTGTTCT
ATCCCCATTGGCTAGAGTCCAATCTAACTAGTCTGATTGGCTATTTTAAACAGGAGGGGTGTGGGTACAGCA
GTGGGAAGAGCAGTTGCCACGAGCGAGGGAGACTTTTCCAGATAAGGAACAAATGCGGGTTACAGGTGGGATTG
GTGGGAGAAATGTTTACAGAATGGGTAAATTAGGAGTGGGAAGGTATGAGGAAGTTGACCTTAAGAACAAAGAACA
AGGAAGTTAACTTTGAAGAGAAACCCATCATACCTAACAGTCTTGTAAGAAAGGATGACAAAGTGATTGAACAT
TGGGTGGAGCTAATTTTCTTGGCCAATTCACCTTAGTAAGATAAGGAGCTCCAAATCATATTTAAGTTGGGAGTC
AATTGATTTTACTTAATTTCTTGTGAGGTTTCACTTAGTAAGATTATCATATACTACTACCATGAGCCATCCTCAGCTC
CTTGTTACATGGGCCTGTTAACATGGCAGCTTTGTCTATAAGCAAACCCAGGAGAGAAAGACATAGCAGAGATGG
ATGTTTGAAGTCTATACCTTCCACCCCTTTAAAGAGAAAGTAACACCACTCCTTTTCTGTGTCCCTTGGGGACA
CTACCTCCATGTCTGGTCACATGGCTGGACTTTACAGCAGATAAGCATACTGTGGCCTGAGACCATGATTGTATG
CTTTCCTTCTGCTGACCTTTACAATCCCTCAATAAATTGAGCTAACACAGGGAAGCTTTTTTACCATAAATACTGT
GTTGCATCATCCTCCAGTTTGCCTGGTGTCTTAATCAATGGAAGGGGAATAAGCAAAGTGAAGTTTCTTACACC
TTTTGAGTATAGTGTTTTTGCCATCATAGATGTGGCTCCTCATAATTCTCCAACTTTTATATTAATAAACCACAAA
CCTCAAAAATTGTAGTTCATGTGAGTCAGTGATGACTCATCTTAGAAGTATTTTGTTTTTGGATGTGTGAATGTG
CATAGTTCCTAAAGTCCAACATTTCATGTAATAAGACATCTTGCATATAACAATGACCCTTACGTCTAAGATGTTA
AATAGATCCTAAGCCTGGTATACTTTATTCAAGTATCCTTATTTGCCCTAAAATGTCTTAAATACACATTACT
TGGGTATTTCTTGAATGAACATACAGGTATCCCAATTTCTGTTTTTAAGAGAATGGGGTCTTGCTCTGTCACCC
AGGCTGGAGTGCAGTGGTGCAGTCATGGCTTACTGCATCCATGATCCTCCTGCCTCAGCCTCCCAAGTAGATGGG
ACTGAAAGCACACACTGCCATCCCTGGCTAATGTTTTCATATTTTGTAGAGTTGCAGCCTTGCTACGTGACCCAG
GCTGGAGTGTAGTAGCTATTCACAGGCATGATTGCTTGAAACTCATGGCTTCAAGGGAACTCCCAACCTCAATA
TCCTCAGTAGCTGCAACTACAGCCATACCCCCACTGCTCAGCTTCTCATCCTTTAAAGATTTTTACTGGTAGT
GTCTCATTTCTGGGTTTTTGTCTTCTGTGTTTACTGTGACATGAAGTCATTTTATAGATGAAGGTAAACATTTTG
CCAACGCAGGTACAATATGGGATTCAATAAAAGTACAGAATTAAAGTTGTCTTATTAGAGATTGGGAAGTTTCCC
AGCTCCGTTTTATCGGTACTTGGCCGTACCGATAAAGGGGATGGACTTGGAGTGACCAGGTCTTAGTCACATGTAT
TTTCATACCCCTAAACAAGAAGCGGTATAGACCAGAATGGAGCACTGATTGTAATCCACCTTCTTTCTTAGAACT
GGCGATGGAATATGAGAGGAGCCCTCTGGAAAGAAAAGGACAGACCCTGTGCTTTCATGAAAGTGAAGATCTGGC
TGAACCAGTTCCACAAGGTTACTGTATACATAGCCTGAGTTTAAAGGCTGTGCCCCTTCAAGAATGTCATTGT
TAGACTTTGAAATTTCTAACTGCCTACCTGCATAAAGAAAATAAAATCTTTTAAATC

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FIGURE 5801

MISKRFLSKADLLLQNGAACTPGHSESTPNKGGEVVFIPNTASSCFCVLSPLARVQSKLVLIGYFKQEGCGLQQW
EEQLPRARETFPDKEQMRVTGWDWWEKCLQNG

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FIGURE 5802

GGCACGGCCTAGCGAGTGGTTCTTCTGCGCTACTGCTGCGCGAATCGGCGACCCCAGTGCCTCGACCACTATGCC
GCGCTCTTTCTCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGGACTCTAATCC
AGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCACCTGCTGGCAGCCATCCCACCTCCGGAGATCCTCAACCC
CACCGCTCGCTGCCAATGCTCATCTGGGACTCTGTCTGGCGCCCCAAGCCCAGCCAATTGCCTGGGCTCCCT
TCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCAGATGAGGACAGTGGGAAAGGCTCCCAGCC
CCCCAGCCCACCTCACC GGCTCCTTTCGTCTTCTCCTCTACTTCAGTCTCTTCTTGGAGGCCGAGGCTATGC
TGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCCCAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAA
GGCCTTCAACTGCAAATACTGCAACAAGGAATACCTCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACAC
GCTGCCCTGCGTCTGCGGAACCTGCGGGAAGGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCA
CACTGGCGAGAAGCCCTTCTCCTGTCCCCACTGCAGCCGTGCCCTTCGCTGACCGCTCCAACCTGCGGGCCACCT
CCAGACCCACTCAGATGTCAAGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCA
CAAGCACCAAGAGTCCGGCTGCTCAGGATGTCCCCGCTGACCCCTCGAGGCTCCCTCTTCTCTCCATACTGCC
CTGCCTGACAGCCTTCCCCAGCTCCAGCAGGAAGGACCCACATCCTTCTCACTGCCATGGAATTCCCTCCTGAG
TGCCCCACTTCTGGCCACATCAGCCCCACAGGACTTTGATGAAGACCATTTCTGGTTCTGTGTCTCTGCCTGG
GCTCTGGAAGAGGCCTTCCCATGGCCATTTCTGTGGAGGGAGGGCAGCTGGCCCCCAGCCCTGGGGGATTCTGA
GCTGGCCTGTCTGCGTGGGTTTTGTATCCAGAGCTGTTTGATACAGCTGCTTTGAGCTACAGGACAAAGGCTG
ACAGACTCACTGGGAAGCTCCCACCCACTCAGGGGACCCACTCCCTCACACACACCCCCCACAAGGAACCC
TCAGGCCACCTCCACGAGGTGTGACTAATAATCCACCCAGGTGCAGCCCCAGGGCCTGCGGAGG
CGGTGGCAGACTAGAGTCTGAGATGCCCCGAGGCCAGGCAGCTATTTAGCCTCCTGTTTGGTGGGGTGGCACCT
GTTTCCCGGGCAATTTAACAATGTCTGAAAAGGGACTGTGAGTAATGGCTGTCACTTGTCGGGGGCCAAGTGGG
GTGCTCTGGTCTGACCGATGTGTCTCCAGAACTATTCTGGGGGCCGACAGGTGGGCCTGGGAGGAAGATGTTT
ACATTTTAAAGGTACACTGGTATTTATATTTCAAACATTTGTATCAAGGAAACGTTTGTATAGTTATATGTA
CAGTTTATTGATATTCAATAAAGCAGTTAATTTATATATTA

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FIGURE 5803

MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPEILNPTASLPMLIWDSVLAPQAQPIAWA
SLRLQESPRVAELTSLSDEDSGKGSQPPSPSPAPSSFSSTSVSSLEAEYAAFPGLGQVPKQLAQLSEAKDLQA
RKAFNCKYCNKEYLSLGALKMHRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFADRSNLRA
HLQTHSDVKKYQCQACARTFSRMSLLHKKHQESGCSGCPR

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FIGURE 5804

TTACACGGCAGGACTTCATCGAGACCAACGGGGACAACCTGCCTGGTGACACTGCTGCCGCTGCTAAACATGGCC
TACAAGTTCGGCACCCACAGCCCTGAAGCCCTGGAGCAGCTATACCCCTGGGAGTGCTTCGTCTTCTGCCTGATC
ATCTTCGGCACCTTCACCAACCAGATCCACAAGTGGTCGCACACGTACTTTGGGCTGCCACGCTGGGTACCCCTC
CTGCAGGACTGGCATGTCATCCTGCCACGTAAACACCATCGCATCCACCACGTCTCACCCACGAGACCTACTTC
TGCATCACCACAGGAGTAAAAGTCCCTCGCAATTTCCGACTGTTGGAAGAACTCGAAGAAGGCCAGAAAGGAGTA
GGAGATGGCACAGTTAGCTGGGGTCTAGAAGATGACGAAGACATGACACTTACAAGATGGACAGGGATGATAATT
GGGCCTCCAAGAACAAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGAAGCA
CCCCCTTTGTAAAGATTTGTAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCCAAGA
GCCATATCAGTGCTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCTAATG
ATGTCTAAAGAAAATATGAAACTCCCTCAGCCGCCCCGAAAGACAGTGTTACAGCAATTAATCAAAAAGAAAAACC
ACAGGCCCTTCCCCTTCCCCCAATTGCAATTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGATACGT
CTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGATACT
AATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACCACTGTCCACGTA
GTTGAACCTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTCAACT
GTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCTTTACCCCTC
CCGCTCCCACCCCTCCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTTAGAGTAGATGTGAAGGTTTCAGGT
CGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCCTGCACCCCTGGTTCCCTTTAAGTCTTAAGTGAT
GCCCCCTTCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAACCCCT
CCTACTCCCCCTCTGAGATTGGCTTCGGTGAGGAATTCAGGGCTTTCCCCATATCTTCTCTCCCCCACCTTTATCG
AGGGGTGCTGCTTTTTTCTCCCTCCTCCTCAAGTTCCTTTTTTGACCGTCACCACCCAACACCTTCCATGACACTT
CCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAACCATA
CTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCTCAGCCCTGCCACCCTCTGCTGTGATCAGCTGA
TGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCTCTCG
GAGTCTTGGTGGTTGAACCTGGAGAAAGACCGCATGAAGATACTTGTAAGCACACATGATCCCTCTGAATTGTT
TTACTTTCTGTAACTGCTTTTTGCTTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCCTTGC
AATCCATTGGGGTCTAGTTTGAATCTGACAACCTGGAACAAAAAGAACCTTGAATCCGGTGCATGCCTTGGTTTT
GGTGCTGCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCCGAAAT
TGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCAAGGACCTAAATGCTGAAATGTGG
ATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGTGTAA
ACCACCTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTCCATTAATCTTTTTCTGGGGGGAAAA
CCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAACATAACAGTATTCCATAAGCAGCCTTTTTATTGT
CAGACCATTGCCTGATTTTAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5805

MAYKFRTHSPEALEQLYPWECFVFCIIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHET
YFCITTGVKVPNRNFRLLLEELEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTIYENRIYSLKIECGPKYP
EAPPFVRFVTKINMNGVNSSNGVVDPRASVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5806

ATGCCAGGAGAGGTTCAAGCGTCTTACCTGAAGTCACAAAGCAAACCTGAGTGATGAAGGAAGACTTGAACCTAGA
AAATTTCACTGCAAAGACAATTTATGAAAACCGAATATACAGCCTTAAAATAGAATGTGGACCTAAATACCCAGA
AGCACCCCCCTTTGTAAGATTGTAAACAAAAATTAATATGAATGGAGTAAATAGTTCTAATGGAGTGGTGGACCC
AAGAGCCATATCAGTGTAGCAAAATGGCAGAATTCATATAGCATCAAAGTTGTCCTGCAAGAGCTTCGGCGCCT
AATGATGTCTAAAGAAAAATATGAAACTCCCTCAGCCGCCCGAAGGACAGTGTTACAGCAATTAATCAAAAAGAAA
AACCACAGGCCCTTCCCCCTTCCCCCAATTCGATTTAATCAGTCTTCATTTTCCACAGTAGTAAATTTTCTAGAT
ACGTCTTGTAGACCTCAAAGTACCGGAAAGGAAGCTCCCATTCAAAGGAAATTTATCTTAAGATACTGTAAATGA
TACTAATTTTTTGTCCATTTGAAATATATAAGTTGTGCTATAACAAATCATCCTGTCAAGTGTAACTGTCCA
CGTAGTTGAACTTCTGGGATCAAGAAAGTCTATTTAAATTGATTCCCATCATAACTGGTGGGGCACATCTAACTC
AACTGTGAAAAGACACATCACACAATCACCTTGCTGCTGATTACACGGCCTGGGGTCTCTGCCTTCTCCCCTTAC
CCTCCCGCCTCCCACCTCCCTGCAACAACAGCCCTCTAGCCTGGGGGGCTTGTAGAGTAGATGTGAAGGCTTC
AGGTCGCAGCCTGTGGGACTACTGCTAGGTGTGTGGGGTGTTCGCTGCACCCCTGGTTTCTTTAAGTCTTAAG
TGATGCCCCTTCCAAACCATCATCCTGTCCCCACGCTCCTCCACTCCCGCCCTTGGCCGAAGCATAGATTGTAAC
CCCTCCACTCCCCTCTGAGATTGGCCTTCGGTGAGGAATTCAGGGCTTTCCCCATACTTCTCTCCCCACCTTT
ATCGAGGGGTGCTGCTTTTTCTCCCTCCTCCTCAAGTTCTTTTTTGACCGTCACCACCCAACACCTTCCATGAC
ACTTCCTTGCTTTGGCCAGAAGCCATCAGGTAAGGTTGGAAGAGCCTCTGACCTCCCTTGTTTAGTTTTGGAAC
CATACTCACTCACTCTCCACCAGCCTGGGAAATGAATATTGGGTCCTCAGCCCTGCCACCTCTGCTGTCACTAG
CTGATGCATTGTTTTTAGCTCAGGTTTTGATAAGGTGAAAAGAATAGTCACCAGGGTTACTCAGACCTGCCAGCT
CTCGGAGTCCTTGGTGGTTGAACTTGGAGAAAGACCGCATGAAGATACTTGTAAAGCACACATGATCCCTCTGAAT
TGTTTTACTTTCTGTAACTGCTTTTGCTTTTAAAAATTGAAGAAGTTTTAAACAGGGCTTTCATTTGGTCATCC
TTGCAATCCATTGGGGGTCTAGTTTGGAATCTGACAACTGGAACAAAAAGAACCTTGAACCCGGTGCATGCCCTTG
GTTTTGGTGTCTGCTGCTTCCCAAGATCCTCAGCAGGGATTAAGAAGGAACCCGGTGTGCACAGCAGATCCCC
GAAATTGGTGGGCTTGACCTCCTGGCAAATTGCTGCGTCTTCCACTTGCTGTTTCCAGGACCACTAAATGCTGAAA
TGTGGATGCATACCGAAATAAAAGCAATTCATTGTGTACTAAAGGTTTTTTTTTTTTTTTAAATTTAGTATTTGT
GTAAAACCACTTTTGAAGCAGCAACTATCAAGTCTGAAAAGCAATTGATGTTTCCATTAATCTTTTTCTGGGGG
GAAAACCTTAGTTCTAAGGATTTAACATCCTGTAAGTGAAGTTTAAACATAACAGTATTCATAAGCAGCCTTTTT
ATTGTCAGACCATTGCCTGATTTTAATATAATAAAAAAAGTGTGCGTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5807

MKEDLNLENFTAKTIYENRIYSLKIECGPKYPEAPPFVRFTKINMNGVNSSNGVVDPR AISVLAKWQNSYSIKV
VLQELRRLMMSKENMKLPQPPEGQCYSN

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FIGURE 5808

ATGCAACGCCTGGTGGCCTGGGACCCAGCATGTCTCCCCCTGCCGCCGCCGCCGCTGCCTTTAAATCCATGGAA
GTGGCCAACTTCTACTACGAGGCGGACTGCTTGGCTGCTGCGTACGGCGGCAAGGCGGCCCCGCGGCGCCCCC
GCGGCCAGACCCGGGCGCGCCCCCGCGCGGAGCTGGGCAGCATCGGCGACCACGAGCGCGCCATCGACTTC
AGCCCGTACCTGGAGCCGCTGGGCGCGCCGAGGCCCCGGCGCCCCGCCACGGCCACGGACACCTTCGAGGCGGCT
CCGCCCCGCGCCCGCCCCGCGCCCGCCTCCTCCGGGCAGCACCACGACTTCCTCTCCGACCTCTTCTCCGACGAC
TACGGGGGCAAGAACTGCAAGAAGCCGGCCGAGTACGGCTACGTGAGCCTGGGGCGCCTGGGGGCTGCCAAGGGC
GCGCTGCACCCCGGCTGCTTCGCGCCCCTGCACCCACCGCCCCGCGCGCCGCCGCCGCCGCGCGAGCTCAAGGCG
GAGCCGGGCTTCGAGCCCGCGGACTGCAAGCGGAAGGAGGAGGCCGGGGCGCCGGGCGGCGCGCAGGCATGGCG
GCGGGCTTCCCGTACGCGCTGCGCGCTTACCTCGGCTACCAGGCGGTGCCGAGCGGCAGCAGCGGGAGCCTCTCC
ACGTCTCTCTCGTCCAGCCCGCCCGGCACGCCGAGCCCCGCTGACGCCAAGGCCCCCGACCGCCTGCTACGCG
GGGGCCGGGCGGGCGCCCTCGCAGGTCAAGAGCAAGGCCAAGAAGACCGTGGACAAGCACAGCGACGAGTACAAG
ATCCGGCGCGAGCGCAACAACATCGCCGTGCGCAAGAGCCGCGACAAGGCCAAGATGCGCAACCTGGAGACGCAG
CACAAGGTCTTGGAGCTACGGCCGAGAACGAGCGGCTGCAGAAGAAGGTGGAGCAGCTGTGCGCGGAGCTCAGC
ACCCTGCGGAACCTGTTCAAGCAGCTGCCCAGCCCCCTGCTCGCCTCCTCCGGCCACTGCTAG

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FIGURE 5809

GTGATGCGTAGTTCCGGCTGCCGGTTGACATGAAGAAGCAGCAGCGGCTAGGGCGGCGGTAGCTGCAGGGGTCCG
GGATTGCAGCGGGCTCGGGGCTAAGAGCGCGACGCGGCCTAGAGCGGCAGACGGCGCAGTGGGCCGAGAAGGAG
GCGCAGCAGCCGCCCTGCCCCGTCATCGGAGATGGAAAAGGAGTTTCGAGCAGATCGACAAGTCCGGGAGCTGGGCG
GCCATTTACCAGGATATCCGACATGAAGCCAGTGACTTCCCATGTAGAGTGGCCAAGCTTCCTAAGAACAAAAAC
CGAAATAGGTACAGAGACGTCACTCCCTTTGACCATAGTCGGATTAACTACATCAAGAAGATAATGACTATATC
AACGCTAGTTTGATAAAAAATGGAAGAAGCCCCAAAGGAGTTACATTCTTACCCAGGGGCCCTTTGCCTAACACATGC
GGTCACTTTTGGGAGATGGTGTGGGAGCAGAAAAGCAGGGGTGTGCTCATGCTCAACAGAGTGATGGAGAAAGGT
TCGTTAAAAATGCGCACAATACTGGCCACAAAAAGAAGAAAAGAGATGATCTTTGAAGACACAAATTTGAAATTA
ACATTGATCTCTGAAGATATCAAGTCATATTATACAGTGCAGACAGCTAGAATTGGAACCTTACAACCCAAGAA
ACTCGAGAGATCTTACATTTCCACTATACCACATGGCCTGACTTTGGAGTCCCTGAATCACCAGCCTCATTCTTG
AACTTTCTTTTCAAAGTCCGAGAGTCAGGGTCACTCAGCCCGGAGCACGGGCCCGTTGTGGTGCAGTGCAGTGCA
GGCATCGGAGGTCTGGAACCTTCTGTCTGGCTGATACCTGCCTCTTGCTGATGGACAAGAGGAAAGACCCCTTCT
TCCGTTGATATCAAGAAAGTGCTGTTAGAAATGAGGAAGTTTCGGATGGGGCTGATCCAGACAGCCGACCAGCTG
CGCTTCTCTACCTGGCTGTGATCGAAGGTGCCAAATTCATCATGGGGGACTCTTCCGTGCAGGATCAGTGGAAG
GAGCTTTCCACAGGACCTGGAGCCCCACCCGAGCATATCCCCCACCTCCCCGGCCACCCAAACGAATCCTG
GAGCCACACAATGGGAAATGCAGGGAGTTCTTCCCAAATCACCAGTGGGTGAAGGAAGAGACCCAGGAGGATAAA
GACTGCCCCATCAAGGAAGAAAAAGGAAGCCCCCTTAAATGCCGCACCCCTACGGCATCGAAAGCATGAGTCAAGAC
ACTGAAGTTAGAAGTCGGGTCTGTGGGGGAAGTCTTCGAGGTGCCAGGCTGCCTCCCCAGCCAAAGGGGAGCCG
TCACTGCCCGAGAAGGACGAGGACCATGCACTGAGTTACTGGAAGCCCTTCTGGTCAACATGTGCGTGGCTACG
GTCTCTACGGCCGGCGCTTACCTCTGCTACAGTTTCTGTTCAACAGCAACACATAGCCTGACCCCTCTCCACTC
CACCTCCACCCACTGTCCGCTCTGCCCGCAGAGCCACGCCCCGACTAGCAGGCATGCCGCGGTAGGTAAGGGCC
GCCGGACCGCTAGAGAGCCGGGCCCCGGACGGTGGTTCTGCACTAAAACCCATCTTCCCCGGATGTGTGT
CTCACCCCTCATCCTTTTACTTTTTTGCCCTTCCACTTTGAGTACCAAATCCACAAGCCATTTTTTGAGGAGAGT
GAAAGAGAGTACCATGCTGGCGGCGCAGAGGAAGGGGCTACACCCGTCTTGGGGCTCGCCCCACCCAGGGCTC
CCTCCTGGAGCATCCAGGCGGGCGGCACGCCAACAGCCCCCCCCCTTGAATCTGCAGGGAGCAACTCTCCACTCC
ATATTTATTTAAACAATTTTTTCCCCAAAGGCATCCATAGTGCAGTACGATTTTCTTGAACCAATAATGTATTAA
AATTTTTTGATGTGAGCCTTGATCAAGGGCTTTATCAAAAAGTACAATAATAAATCCTCAGGTAGTACTGGGAA
TGGAAGGCTTTGCCATGGGCTGCTGCGTCAGACCATGGAAGGAGGACGGTTGTAAGCAGTTGTTATTTA
GTGATATTGTGGGTAACGTGAGAAGATAGAACAATGCTATAATATAATGAACACGTGGGTATTTAATAAGAAA
CATGATGTGAGATTACTTTGTCCCGCTTATTCTCCTCCCTGTTATCTGCTAGATCTAGTTCTCAATCACTGCTCC
CCCGTGTGATTAGAAATGCATGTAAGGTCTTCTTGTGCTCTGATGAAAAATATGTGCTTGAAATGAGAACTTTG
ATCTCTGCTTACTAATGTGCCCCATGTCCAAGTCCAACCTGCCTGTGCATGACCTGATCATTACATGGCTGTGGT
TCCTAAGCCTGTTGCTGAAGTCATTGTGCTCAGCAATAGGGTGCAGTTTTCAGGAATAGGCATTTGCCTAATT
CCTGGCATGACACTCTAGTGACTTCTGCTGAGGCCAGCCTGTCCTGGTACAGCAGGGTCTTGCTGTAACCTCAG
ACATTCCAAGGGTATGGGAAGCCATATTACACCTCACGCTCTGGACATGATTTAGGGAAGCAGGGACACCCCCC
GCCCCCACCTTTGGGATCAGCCTCCGCCATTCCAAGTCAACACTCTTCTTGAGCAGACCGTGATTTGGAAGAGA
GGCACCTGCTGGAACACACACTTCTTGAAACAGCCTGGGTGACGGTCCCTTTAGGCAGCCTGCCGCGTCTCTGTC
CCGGTTCACCTTGCCGAGAGAGGCGCGTCTGCCCCACCCTCAAACCCTGTGGGGCTGATGGTGTACGACTCT
TCCTGCAAAGGGAACCTGAAGACCTCCACATTAAGTGGCTTTTTAACATGAAAAACACGGCAGCTGTACTCCCGA
GCTACTCTCTTGCCAGCATTTTACATTTTGCCTTTCTCGTGGTAGAAGCCAGTACAGAGAAATTCTGTGTGGG
AACATTCGAGGTGTCAACCTGCAGAGCTATGGTGAGGTGTGGATAAGGCTTAGGTGCCAGGCTGAAGCATCTG
AGCTGGGCTTGTGTGTTTTAAGTCTGTATATGTATGTAGTAGTTTGGGTGTGTATATATAGTAGCATTTCAAAA
TGGACGTACTGGTTAACTCCTATCCTTGGAGAGCAGCTGGCTCTCCACCTTGTACACATTATGTTAGAGAGG
TAGCGAGCTGCTCTGCTATATGCCTTAAGCCAATATTTACTCATCAGGTCATTATTTTTTACAATGGCCATGGA
TAAACCATTTTTTACAAA

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FIGURE 5810

MEMEKEFEQIDKSGSWAAIYQDIRHEADFPCRVAKLPKNKNRNRDVSFPDHSRIKLHQEDNDYINASLIKME
EAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSCLKAQYWPQKEEKEMIFEDTNLKLTLISEDIK
SYTIVRQLELENLTTQETREILHFHYTTWPDFGVPEPASFLNFLFKVRESGSLSPHGPVVVHCSAGIGRSGTF
CLADTCLLLMDKRKDPSSVDIKKVLLEMRRKFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLE
PPPEHIPPPRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEKGSPLNAAPYGIESMSQDTEVRSRVV
GGSLRGAQAASPAKGPSLPEKDEDHALSYWKPFLVNMCVATVLTAGAYLCYRFLFNSNT

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FIGURE 5811

ATGGCCTCCTTGGAAGTCAGTCGTAGTCCTCGCAGGTCTCGGCGGGAGCTGGAAGTGCGCAGTCCACGACAGAAC
AAATATTTCGGTGCTTTTACCTACCTACAACGAGCGCGAGAACCTGCCGCTCATCGTGTGGCTGCTGGTGAAAAGC
TTCTCCGAGAGTGGAATCAACTATGAAATTATAATCATAGATGATGGAAGCCCAGATGGAACAAGGGATGTTGCT
GAACAGTTGGAGAAGATCTATGGGTCAGACAGAATTCTTCTAAGACCACGAGAGAAAAAGTTGGGACTAGGAACT
GCATATATTCATGGAATGAAACATGCCACAGGAACTACATCATTATTATGGATGCTGATCTCTCACACCATCCA
AAATTTATTCCTGAATTTATTAGGAAGCAAAAGGAGGGTAATTTTGATATTGTCTCTGGAACCTCGCTACAAAGGA
AATGGAGGTGTATATGGCTGGGATTTGAAAAGAAAAATAATCAGCCGTGGGGCCAATTTTTTAACCTCAGATCTTG
CTGAGACCAGGAGCATCTGATTTAACAGGAAGTTTCAGATTATACCGAAAAGAAGTTCTAGAGAAATTAATAGAA
AAATGTGTTTCTAAAGGCTACGTCTTCCAGATGGAGATGATTGTTTCGGGCAAGACAGTTGAATTATACTATTGGC
GAGGTTCCAATATCATTGTGGATCGTGTATATGGTGAATCCAAGTTGGGAGGAAATGAAATAGTATCTTTCTTG
AAAGGATTATTGACTCTTTTGTACTACATATAAAGAAAGATACTCATTTATAGTTACGTTTCAATTCAGGTTAAA
CATGAAAGAAGCCTGGTTACTGATTTGTATAAAATGTACTCTTAAAGTATAAAATATAAGGTAAGGTAAATTTCA
TGCATCTTTTTATGAAGACCACCTATTTTATATTTCAAATTAAATAATTTTAAAGTTGCTGGCCTAATGAGCAAT
GTTCTCAATTTTCGTTTTTCATTTTGCTGTATTGAGACCTATAAATAAATGTATATTTTTTTTTTGCATAAAGT

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FIGURE 5812

MASLEVSRSRRSRRELEVRSPRQNKYSVLLPTYNERENLPLIVWLLVKSFSSEGINYEIIIIIDDGSPDGTRDVA
EQLEKIYGSDRILLRPREKKLGLGTAYIHGMKHATGNYIIIMDADLSHHPKFIPEFIRKQKEGNFDIVSGTRYKG
NGGVYGWDLKRKIIISRGANFLTQILLRPGASDLTGSRFLYRKEVLEKLEKCVSKGYVFQMEMIVRARQLNYTIG
EVPISFVDRVYGESKLGNEIVSFLKGLLTLFATT

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FIGURE 5813

GGAAGACTTGGGTCCCTTGGGTGCGCAGGTGGGAGCCGACGGGTGGGTAGACCGTGGGGGATATCTCAGTGGCGGAC
GAGGACGGCGGGGACAAGGGGCGGCTGGTTCGGAGTGGCGGAGCGTCAAGTCCCCTGTTCGGTTCCCTCCGTCCCTGA
GTGTCCTTGGCGCTGCCTTGTGCCCCGCCAGCGCCTTTGCATCCGCTCCTGGGCACCGAGGCGCCCTGTAGGATA
CTGCTTGTACTTATTACAGCTAGAGGGTCTCACTCCATTGCCAGGCCAGAGTGCGGGGATATTTGATAAGAAA
CTTCAGTGAAGGCCGGGCGCGGTGGCTCATGCCCCGTAATCCAGCATTTCGGAGGCCGAGGCAFCATGGACCGA
TCTAAAGAAAACCTGCATTTACAGGACCTGTTAAGGCTACAGCTCCAGTTGGAGGTCCAAAACGTGTTCTCGTGACT
CAGCAATTTCCCTTGTGAGAATCCATTACCTGTAAATAGTGGCCAGGCTCAGCGGGTCTTGTGTCTTCAAATTCT
TCCCAGCGCATTCCCTTTGCAAGCACAAAAGCTTGTCTCCAGTCACAAGCCGGTTTCAGAATCAGAAGCAGAAGCAA
TTGCAGGCAACCAGTGTACCTCATCCTGTCTCCAGGCCACTGAATAACACCCAAAAGAGCAAGCAGCCCCCTGCCA
TCGGCACCTGAAAATAATCCTGAGGAGGAACTGGCATCAAAACAGAAAAATGAAGAATCAAAAAAGAGGCAGTGG
GCTTTGGAAGACTTTGAAATTGGTCGCCCTCTGGGTAAAGGAAAGTTTGGTAATGTTTATTTGGCAAGAGAAAAG
CAAAGCAAGTTTATTTCTGGCTCTTAAAGTGTTATTTAAAGCTCAGCTGGAGAAAGCCGGAGTGGAGCATCAGCTC
AGAAGAGAAGTAGAAAATACAGTCCCACCTTCGGCATCCTAATATTCTTAGACTGTATGGTTATTTCCATGATGCT
ACCAGAGTCTACCTAATTCTGGAATATGCACCACTTGGAACAGTTTATAGAGAACTTCAGAACTTTCAAAGTTT
GATGAGCAGAGAAGTGTACTTATATAACAGAATTGGCAAATGCCCTGTCTTACTGTCAATTCGAAGAGAGTTATT
CATAGAGACATTAAGCCAGAGAAGTACTTCTTGGATCAGCTGGAGAGCTTAAAATTGCAGATTTTGGGTGGTCA
GTACATGCTCCATCTTCCAGGAGGACCACTCTCTGTGGCACCCCTGGACTACCTGCCCCCTGAAATGATTGAAGGT
CGGATGCATGATGAGAAGGTGGATCTCTGGAGCCTTGGAGTTCTTTGCTATGAATTTTGTGTTGGGAAGCCTCCT
TTTGAGGCAAACACATACCAAGAGACCTACAAAAGAATATCACGGGTGAATTCACATTCCTGACTTTGTAACA
GAGGGAGCCAGGGACCTCATTTCAAGACTGTTGAAGCATAATCCAGCCAGAGGCCAATGCTCAGAGAAGTACTT
GAACACCCCTGGATCACAGCAAATTCATCAAAACCATCAAATTGCCAAAACAAAGAATCAGCTAGCAAACAGTCT
TAGGAATCGTGCAGGGGGAGAAATCCTTGAGCCAGGGCTGCCATATAACCTGACAGGAACATGCTACTGAAGTTT
ATTTTACCATTGACTGCTGCCCTCAATCTAGAACGCTACACAAGAAATATTTGTTTTACTCAGCAGGTGTGCCTT
AACCTCCCTATTTCAGAAAGCTCCACATCAATAAACATGACACTCTGAAGTGAAAGTAGCCACGAGAATTGTGCTA
CTTATACTGGTTTATAATCTGGAGGCAAGGTTTCGACTGCAGCCGCCCGTCAGCCTGTGCTAGGCATGGTGTCTT
CACAGGAGGCAAAATCCAGAGCCTGGCTGTGGGGAAAGTGACCACTCTGCCCTGACCCCGATCAGTTAAGGAGCTG
TGCAATAACCTTCCTAGTACCTGAGTGAGTGTAAGTTATTTGGGTGGCGAAGCCTGGTAAAGCTGTTGGAATG
AGTATGTGATTCTTTTAAAGTATGAAAATAAAGATATATGTACAGACTTGATTTTTTCTCTGCTGGCATTCTCT
TAGGAATGCTGTGTGTCTGTCCGGCACCCCGGTAGGCCTGATTGGGTTTCTAGTCCTCCTTAACCACTTATCTCC
CATATGAGAGTGTGAAAAATAGGAACACGTGCTCTACCTCCATTTAGGGATTTGCTTGGGATACAGAAGAGGCCA
TGTGTCTCAGAGCTGTTAAGGGCTTATTTTTTTTAAACATTGGAGTCATAGCATGTGTGTAAACTTTAAATATGC
AAATAAATAAGTATCTATGTCT

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FIGURE 5814

AGAGGAGTGGGACCGATCGATAGCGCAGCGGTCGCTTGGCGCCCTTTTTCAGCGTGCGCAGTGAACGTGCGCTCGGA
GCGGTAGATTGGGCAGGATTCGCGCCTCCATTTTTTCCAGGAGAGAGCGGGATACCAAGAGAACCGGACCAGCTGC
TGGCAGGGAAACTGTCTTCCTTTTCTCCAAGATGTACAGAACCAAAGTGGGCTTGAAGGACCGCCAGCAGCTCTA
CAAGCTGATCATTAGCCAGCTGCTATATGACGGCTACATCAGCATCGCCAATGGCCTCATCAATGAAATCAAGCC
TCAGTCTGTGTGTGCACCCCTCGGAGCAGCTCCTGCATCTCATCAAACCTCGGAATGGAAAACGATGACACCGCAGT
TCAGTATGCAATTGGTTCGTTTTCAGATACTGTTGCCCTGGCACAGGGATTGACCTGGAATTTGATGCAGATGTTCA
GACTATGTCCCAGAGGCTTCTGAGTACGAAACATGCTATGTACATCACATAAAGGACCATGCCGTGTAGCTAC
CTATAGTAGAGATGGACAGTTAATAGCTACTGGGTCTGCTGATGCTTCGATAAAGATACTTGACACAGAGAGGAT
GTTGGCCAAAAGTGCCATGCCAATAGAGGTCATGATGAATGAGACCGCACAAACAAATATGGAAAACCAACCCAGT
GATTCGAACTCTTTATGACCATGTGGATGAAGTCACGTGCCTTGCTTTCCACCCAACAGAACAGATCCTGGCTTC
TGGTTCAAGGGATTATACCTCTTAAATTATTTGATTATTTCCAAACCATCAGCAAAAAGAGCCTTCAAATACATTCA
GGAAGCTGAAATGTTACGTTCCATCTCTTTTCATCCTTCTGGAGACTTTTATACTTGTTCGGAACCTCAGCATCCTAC
TCTTCGCCCTTATGATATCAACACCTTTCAATGTTTTGTCTCTTGCAATCCTCAAGATCAACACACCGATGCTAT
ATGTTCCGTTAATTACAATTCTAGTGCCAATATGTACGTAACCTGGAAGCAAGGACGGCTGCATCAAATTATGGGA
TGGTGTTCAAATCGATGCATCACAACCTTTTGAGAAAGCACATGACGGTGCTGAAGTTTGTCTGCCATTTTTTC
CAAAAATCTAAATACATTCTCTCAAGTGAAAAGACTCTGTAGCTAACTTTGGGAAATATCAACGGGACGAAC
ACTGGTCAGATACACGGGCGCGGGTTTAAAGTGGACGCCAGGTGCACCGGACACAGGCTGTGTTTAAACCACACCGA
GGACTATGTGTTGCTGCCCCGACGAGAGGACGATCAGTCTTTGCTGCTGGGACTCGAGGACAGCCGAGCGGAGAAA
CCTGCTGTCGTTGGGGCACAACAATATTGTACGCTGCATAGTGCACCTCCCCACCAACCCCGGGTTCATGACGTG
CAGCGATGACTTCAGAGCGCGGTTTTGGTACCGGAGATCGACCACTGACTGAGCCACCCTCTCCGTAGGGTTCTT
TCTCGAGGACTCTACCCTCCTCCCCACGTCCTGTCTCAGCTGCAGTCGTAAGTCCGTGCACCATCCTTGACGTT
TTGCTGCCACCTCTGTCCACATTCTTCTTGGATTTGTATAAAAGAATCTTTTTTTACCTTGATGTAGAATCATGG
TGGAAAAAGTTGGAAACACAGATCTGTGCAGTTCTACATTACTGATTATTACAGTGTGATTTTCATCGGTTTTG
TAAGTACAGGACTTGCCGTTTCTTTTGATCTCTTGATTGAAGGAGGATAGGGCATTAAAGTGCTTTTGACATGAG
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FIGURE 5815

MYRTKVGLKDRQQLYKLIISQLLYDGYISIANGLINEIKPQSVCAPSEQLLHLIKLGMENDDTAVQYAIGRSDTV
APGTGIDLEFDADVQTMSPASEYETCYVTSHKGPCR VATYSRDGQLIATGSADASIKILDTERMLAKSAMP IEV
MMNETAQONMENHPVIRTLYDHVDEVTCLAFHPTEQILASGSRDYTLKLF DYSKPSAKRAFKYIQEAEMLR S I S F
HPSGDFILVGTQHPTLRLYDINTFQCFVSCNPQDQHTDAICSVNYNSSANMYVTGSKDGC I KLWDGVSNRCITTF
EKAHDGAEVCSAIFSKNSKYILSSGKDSVAKLWEISTGR TLVRYTGAGLSGRQVHRTQAVFNHTEDYVLLPDERT
ISLCCWDSRTAERRNLLSLGHNNIVRCIVHSPTNPGFMTCSDDFRARFWYRRSTD

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FIGURE 5816

GGATTTGCGCCGGAAATCCCGGAAGTGACAGCTTTGGGGGTTTGCTGCTGGCTCTGACTCCCGTCCTGCGATGGGT
TGCGACGGGGGAACAATCCCCAAGAGGCATGAACTGGTGAAGGGGCCGAAGAAGGTTGAGAAGGTCGACAAAGAT
GCTGAATTAGTGGCCCAATGGAACTATTGTACTCTAAGTCAGGAAATATTAAGACGACCAATAGTTGCCTGTGAA
CTTGGCAGACTTTATAACAAAGATGCCGTCATTGAATTTCTCTTGACAAATCTGCAGAAAAGGCTCTTGGGAAG
GCAGCATCTCACATTAAGCATTAAGAATGTGACAGAGCTGAAGCTTTCTGATAATCCTGCCTGGGAAGGGGAT
AAAGGAAACACTAAAGGTGACAAGCACGATGACCTCCAGCGGGCGCTTTTCATCTGCCCCGTTGTGGGCCTGGAG
ATGAACGGCCGACACAGGTTCTGCTTCCTTCGGTGCTGCGGCTGTGTGTTTTCTGAGCGAGCCTTGAAAGAGATA
AAAGCGGAAGTTTGCCACACGTGTGGGGCTGCCTTCCAGGAGGATGATGTCATCATGCTCAATGGCACCAAGGAG
GATGTGGACGTGCTGAAGACAAGGATGGAGGAGAGAAGGCTGAGAGCGAAGCTGGAAAAGAAAACAAAGAAACCC
AAGGCAGCAGAGTCTGTTTCAAACACAGATGTCAGTGAAGAAGCCCCAGGGCCATCAAAGTTAAGACAGGGAAG
CCTGAAGAAGCCAGCCTTGATTCTAGAGAGAAGAAAACCAACTTGGCTCCCAAAGCACAGCAATGAATGAGAGC
TCTTCTGGAAGCTGGGAAGCCTCCGTGTGGAGCCACAAAGAGGTCCATCGCTGACAGTGAAGAAATCGGAGGCC
TACAAGTCCCTCTTTACCACTCACAGCTCCGCCAAGCGCTCCAAGGAGGAGTCTGCCCCACTGGGTCACCCACAG
TCCTACTGCTTCTGAAGCCCGCACTGCCACCGCTCCTGCCCCAGAAGGTTGTTTAGTTTCCACGTAGGCAGGTCTG
CTTGTGCTCTGAGTGGCTGCTGTGTGTTCTCTCTATAGTTCTGTGTCATAAAGCTGTCCTGGCCAGCCTTCA
AGCTGGTGTGGCCACTCTTGATGTGAGGCGTGTGCGTTCCAGGGGGGACATGGGAGGGGCTGCACAGTGGCCCGA
GGTCAATGCTTGCTTCCACCTGCAGGTGCATTTGGTCTTTCCATGGCCAGGAAGCCCTGTGGGCTGCACTTTTTA
TGCTTGCACTAACAAAGAGACTCCAGAGTCTCACCAGGTGCAGAGTTGGCACATATTAATTAATAAAATTCTAAT
GATCTTGCTACCAGCAATAAATCAAGTAGGCCAAGTGAACTGGGCTTTAAAAGGATGGATTTCAAATACACTG
TGCCCCACTAGAAGCTTCGAAGGGCCTCGTCCCTCTGCTACAGCCCTGGGAGGAGCCAGGATCCTTGTTGGTCTAG
CTAAATACTGTTAGGGGAGTGTGCCCCATCTCATCATTTTGAAGATAGCAGAGTCATAGTTGGGCACCCAGTGAT
TGGGTTCAAAAATAAAGCTGGTCTGCCTCTTC

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FIGURE 5817

MGCDGGTIPKRHELVKGPKKVEKVDKDAELVAQWNYCTLSQEILRRPIVACELGRLYNKDAVIEFLDKSAEKAL
GKAASHIKSIKNVTELKLSDNPAWEGDKGNTKGDKHDDLQRARFICPVVGLEMNGRHRFCFLRCCGCVFSEALK
EIKAEVCHTCGAAFQEDDVIMLNGTKEDVDVLKTRMEERRLRKLEKKTKKPKAAESVSKPDVSEEAPGPSKVKT
GKPEEASLDSREKKTNLAPKSTAMNESSSGKAGKPPCGATKRSIADSESEAYKSLFTTHSSAKRSKEESAHWVT
HTSYCF

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FIGURE 5818

CCGAGGCGGCCTCTTGTGCGATCCAGGGCGCACAAAGGCTGGGAGAGCGCCCCGGGGCCCTGCTATCCGCGCCGG
AGGTTGGAAGAGGGTGGGTTGCCGCCGCCGAGGGCGAGAGCGCCAGAGGAGCGGGAAGAAGGAGCGCTCGCCCCG
CCCCCTGCCTCCTCGCTGCCTCCCCGGCGTTGGCTCTCTGGACTCCTAGGCTTGCTGGCTGCTCCTCCCACCCG
CGCCCGCCTCCTCACTCGCCTTTTCGTTCCGCCGGGGCTGCTTTCCAAGCCCTGCGGTGCGCCGGGCGAGTGCGG
GGCGAGGGGGCCCGGGGCCAGCACCGAGCAGGGGGCGGGGTCCGGGCAGAGCGCGGCCGGCCGGGGAGGGGCCAT
GTCTGGCGCGGGCGCAGCGGGGCCGTCTGACAGCAAGTGACCGAGCGGCGCGGACGGCCGCTGCCCTCTGCCC
ACCTGGGGCGGTGCGGGGCCGAGCCCGGAGCCCGGGTAGCGCTAGAGCCGGCGCGATGCACGTGCGCTCACTG
CGAGCTGCGGGCGCCGACAGCTTCGTGGCGCTCTGGGCACCCCTGTTCTGCTGCGCTCCGCCCTGGCCGACTTC
AGCCTGGACAACGAGGTGCACTCGAGCTTCATCCACCGGCGCCTCCGCAGCCAGGAGCGGGCGGGAGATGCAGCGC
GAGATCCTCTCCATTTTGGGCTTGCCCCACCGCCCGCGCCCGCACCTCCAGGGCAAGCACAACTCGGCACCCATG
TTCATGCTGGACCTGTACAACGCCATGGCGGTGGAGGAGGGCGGGCGGGCCCGGGCGCCAGGGCTTCTCCTACCCC
TACAAGGCCGTCTTCAGTACCCAGGGCCCCCTCTGGCCAGCCTGCAAGATAGCCATTTCTCACCAGCGCCGAC
ATGGTCATGAGCTTCGTCAACCTCGTGAACATGACAAGGAATTCTTCCACCCACGCTACCACCATCGAGAGTTC
CGGTTTGATCTTTCCAAGATCCCAGAAGGGGAAGCTGTACGGCAGCCGAATTCCGGATCTACAAGGACTACATC
CGGGAACGCTTCGACAATGAGACGTTCCGGATCAGCGTTTATCAGGTGCTCCAGGAGCACTTGGGCAGGGAATCG
GATCTCTTCTGCTCGACAGCCGTACCTCTGGGCCCTCGGAGGAGGGCTGGCTGGTGTGTTGACATCACAGCCACC
AGCAACCACTGGGTGGTCAATCCGCGGCACAACCTGGGCCTGCAGCTCTCGGTGGAGACGCTGGATGGGCAGAGC
ATCAACCCCAAGTTGGCGGGCCTGATTGGGCGGCACGGGCCCCAGAACAAGCAGCCCTTCATGGTGGCTTTCTTC
AAGGCCACGGAGGTCCACTTCCGCAGCATCCGGTCCACGGGGAGCAAACAGCGCAGCCAGAACCGCTCCAAGACG
CCCAAGAACCAGGAAGCCCTGCGGATGGCCAACGTGGCAGAGAACAGCAGCAGCGACCAGAGGCAGGCCTGTAAG
AAGCACGAGCTGTATGTCAGCTTCCGAGACCTGGGCTGGCAGGACTGGATCATCGCGCCTGAAGGCTACGCCGCC
TACTACTGTGAGGGGGAGTGTGCCTTCCCTCTGAATCCTACATGAACGCCACCAACCACGCCATCGTGCAGACG
CTGGTCCACTTCATCAACCCGGAACGGTGCCCAAGCCCTGCTGTGCGCCACGCAGCTCAATGCCATCTCCGTC
CTCTACTTCGATGACAGCTCCAACGTCATCTGAAGAAATACAGAAACATGGTGGTCCGGGCCTGTGGCTGCCAC
TAGCTCCTCCGAGAATTGAGACCCTTTGGGGCCAAGTTTTCTGGATCCTCCATTGCTCGCCTTGGCCAGGAACC
AGCAGACCAACTGCCTTTTGTGAGACCTTCCCCTCCCTATCCCCAACTTTAAAGGTGTGAGAGTATTAGGAAACA
TGAGCAGCATATGGCTTTTGATCAGTTTTTTCAGTGGCAGCATCCAATGAACAAGATCCTACAAGCTGTGCAGGCA
AAACCTAGCAGGAAAAAAAACAACGCATAAAGAAAAATGGCCGGGCCAGGTCATTGGCTGGGAAGTCTCAGCCA
TGCACGGACTCGTTTCCAGAGGTAATTATGAGCGCTACCAGCCAGGCCACCCAGCCGTGGGAGGAAGGGGGCGT
GGCAAGGGGTGGGCACATTGGTGTCTGTGCGAAAGGAAAAATGACCCGGAAGTTCTGTAATAAATGTCACAATA
AAACGAATGAATG

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FIGURE 5819

AGCCACTGCAGTACATTGAGCTCCATAGAGACAGCGCCGGGGCAAGTGAGAGCCGTACGGGCACTGGGCGACTCT
GTGCCTCGCTGAAGAAAAATAACTAAACATGGGCAAAGGAGATCCTAAGAAGCCGAGAGGCAAAATGTCATCATA
TGCATTTTTTGTGCAAAC TTGTCGGGAGGAGCATAAGAAGAAGCACTCAGATGCTTCAGTCAACTTCTCAGAGTT
TTCTAACAAGTGCCCATTTATGAAAGACAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCA
AGGATCCCAATGCACCCAAGAGGCCTCCTTCGGCCTTCTTCCTGTTCTGCTCTGAGTATCACCCAAAAATCAAAG
GAGAACATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCTGCAGATG
ACAAGCAGCCTGGTGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCAAGCTA
AAGGAAAGCCTGAGGCAGCAAAAAAGGGAGTTGTCAAAGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAG
ATGAGGAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGAAGATGATGATGAATAAGTTGGCT
CTAGCGCAGTTTTTTTTTCTTGCTTTAAAGCATTTAACGCCCCGTACACAACCTCACTCCTTTTAAAGAAAAAAAT
TGAAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCGTTTTTTGTATGGTTAATACTACCAAA
TGTGCTTTTAGATGGCCCTGTCCTGGTGGTATTTTCAATAGTCACTAACCTTGCCCTGGTAGAGTATGGGGTTGT
AAATTGGCATGGAAATTTAAAGCAGGTTCTTGTGGTGCGCAGCACAAATTAGTTATATATGGGGATGGTAGTTT
TTTCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTGTTCTGTTAACTGAATACCACTCTGTAATTGC
AAAAAAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTT

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FIGURE 5820

MGKGDPKKPRGKMSSYAFFVQTCREEHKKKHSDASVNFSEFSNKCHYERQMKTYIPPKGETKKKFKDPNAPKRPP
SAFFLFCSEYHPKIKGEHPGLSIGDVAKKLGEMWNNTAADDKQPGKKAAKLKEYEKDIAAYQAKGKPEAAKKG
VVKAEKSKKKKEEEEDEEDEDEDEDEDEDEDEDEDDDDDE

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FIGURE 5821

TTTAAAGCTGGGAGGTTCTGCCACCAAGCACGGCCTTCCCCTGCGGAAACACAACTTGCTGGCGGGAAGAGCCCG
GAAAGAAACCTGTGGATCTCCCTTCGAGATCATCCAAAGAGAAGAAAGGTGACCTCACATTTCGTGCCCTTAGCA
GCACTCTGCAGAAATGCCTCCTCAGCTGCAAAACGGCCTGAACCTCTCGGCCAAAGTTGTCCAGGGAAGCCTGGA
CAGCCTACCCCAGGCAGTGAGGGAGTTTCTCGAGAATAACGCTGAGCTGTGTGAGCCTGATCACATCCACATCTG
TGACGGCTCTGAGGAGGAGAATGGGCGGCTTCTGGGCCAGATGGAGGAAGAGGGCATCCTCAGGCGGCTGAAGAA
GTATGACAACTGCTGGTTGGCTCTCACTGACCCCAGGGATGTGGCCAGGATCGAAAGCAAGACGGTTATCGTCCAC
CCAAGAGCAAAGAGACACAGTGCCCATCCCCAAAAACAGGCCTCAGCCAGCTCGGTTCGCTGGATGTCAGAGGAGGA
TTTTGAGAAAGCGTTCAATGCCAGGTTCCCAGGGTGCATGAAAGGTGCGACCATGTACGTCATCCCATTACAGCAT
GGGGCCGCTGGGCTCGCCTCTGTCAAAGATCGGCATCGAGCTGACGGATTACCCCTACGTGGTGGCCAGCATGCG
GATCATGACGCGGATGGGCACGCCGCTCCTGGAAGCAGTGGGCGATGGGGAGTTTGTCAAATGCCTCCATTCTGT
GGGGTGCCCTCTGCCTTTACAAAAGCCTTTGGTCAACAACTGGCCCTGCAACCCGGAGCTGACGCTCATCGCCCA
CCTGCCTGACCGCAGAGAGATCATCTCCTTTGGCAGTGGGTACGGCGGGAACCTCGCTGCTCGGGAAGAAGTGCTT
TGCTCTCAGGATGGCCAGCCGGCTGGCCAAGGAGGAAGGGTGGCTGGCAGAGCACATGCTGATTCTGGGTATAAC
CAACCCTGAGGGTGAGAAGAAGTACCTGGCGGCCGATTTCCAGCGCCTGCGGGAAGACCAACCTGGCCATGAT
GAACCCAGCCTCCCCGGGTGGAAGGTTGAGTGCGTGGGGATGACATTGCCTGGATGAAGTTTGACGCACAAGG
TCATTTAAGGGCCATCAACCCAGAAAATGGCTTTTTCGGTGTGCTCCTGGGACTTCAGTGAAGACCAACCCCAA
TGCCATCAAGACCATCCAGAAGACACAATCTTTACCAATGTGGCCGAGACACGACGGGGCGTTTACTGGGA
AGGCATTGATGAGCCGCTAGCTTCAGGTGTCAACCATCACGTCCTGGAAGAATAAGGAGTGGAGCTCAGAGGATGG
GGAACCTTGTGCCACCCCAACTCGAGGTTCTGCACCCCTGCCAGCCAGTGCCCATCATTTGATGCTGCCTGGGA
GTCTCCGGAAGGTGTTCCCATGGAAGGCATTATCTTTGGAGGCCGTAGACCTGCTGGTGTCCCTCTAGTCTATGA
AGCTCTCAGCTGGCAACATGGAGTCTTTGTGGGGCGGCCATGAGATCAGAGGCCACAGCGGCTGCAGAACATAA
AGGCAAAATCATCATGTCATGACCCCTTTGCCATGCGGCCCTTCTTTGGCTACAACTTCGGCAAATACCTGGCCCA
CTGGCTTAGCATGGCCAGCACCCAGCAGCCAACTGCCCAAGATCTTCCATGTCAACTGGTTCGGGAAGGACAA
GGAAGGCAAATTCCTCTGGCCAGGCTTTGGAGAGAACTCCAGGGTGTGGAGTGGATGTTCAACCGGATCGATGG
AAAAGCCAGCACCAAGCTCACGCCCATAGGCTACATCCCCAAGGAGGATGCCCTGAACCTGAAAGGCCTGGGGCA
CATCAACATGATGGAGCTTTTCAGCATCTCCAAGGAATCTGGGAGAAGGAGGTGGAAGACATCGAGAAGTATCT
GGAGGATCAAGTCAATGCCGACCTCCCCTGTGAAATCGAGAGAGAGATCCTTGCCCTGAAGCAAAGAATAAGCCA
GATGTAATCAGGGCCTGAGTGCTTTACCTTTAAATCAATTCCTTTCCCATCCATAAGGTGCAGTAGGAGCAAGA
GAGGGCAAGTGTTCCCAAATTGACGCCACCATAATAATCATCACACACCGTGAGCAGATCTGAAAGGCACACTT
TGATTTTTTTAAGGATAAGAACCACAGAACTGGGTAGTAGCTAATGAAATTGAGAAGGGAAATCTTAGCATGC
CTCCAAAATTCACATCCAATGCATAGTTTGTTCAAATTTAAGGTTACTCAGGCATTGATCTTTTCAGTGTTTTT
TCACCTTAGCTATGTGGATTAGCTAGAATGCACACCAAAAAAATACTTGAGCTGTATATATATATGTGTGTGT
GT
ATGTACTGTTATTGAAAATATATTTAATACCTTTGGAAAAATCTTGGGCAAGATGACCTACTAGTTTTCTTGAA
AAAAAGTTGCTTTGTTATTAATATTGTGCTTAAATATTTTTATACACCATTTGTTTCTTACCTTTACATAATTGC
AATATTTCCCCTTACTACTTCTTGGAATAAATAACAAATGAAGTTTTATAGAAAAG

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FIGURE 5822

MPPQLQNGLNLSAKVVQGSLSLDPQAVREFLENNALCQPDHIHICDGSEEENGRLLQMEEEGILRRLKKYDNC
WLALTDPRDVARIESKTVIVTQEQRDTVP IPKTGLSQLGRWMSEEDFEKAFNARFPGCMKGRTMYVIPFSMGPLG
SPLSKIGIELTDSPLYVVASMRIMTRMGTPVLEAVGDGEFVKCLHSGCPLPLQKPLVNNWPCNPELTLLIAHLPDR
REIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPEGEKKYLAAAFPSACGKTNLAMMNP SL
PGWKVECVGDDIAWMKFDAQGHRLRAINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWE GIDE
PLASGVTITSWKNKEWSSEDGEPCAHPNRSR FCTPASQCPI IDAAWESPEGVP IEGIIFGGRRPAGVPLVYEALSW
QHGVFVGAAMRSEATAAAEHKGKIIMHDPFAMRPFFGYNFGKYLAWLSMAQH PAAKLPKIFHVNWFRKDKEGKF
LWPGFGENSRVLEWMFNRIDGKASTKLTP IGYIPKEDALNLKGLGHINMMELFSISKEFWEKEVEDIEKYLE DQV
NADLPCEIEREILALKQRISQM

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[illegible]

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FIGURE 5823B

ACTCCTGCTCCTCCAACCTTTTTTTGCCAAGGTTTGTACACGACTCCCATCTAGGCTGAAAACCTAGAAGTGGAC
CTTGTGTGTGTGCATGGTGTGAGCCCAAAGCCAGGCTGAGACAGTCCTCATATCCTCTTGAGCCAAACTGTTTGG
GTCTCGTTTGCTTCATGGTATGGTCTGGATTTGTGGGAATGGCTTTGCGTGAGAAAGGGGAGGAGAGTGGTTGCTG
CCCTCAGCCGGCTTGAGGACAGAGCCTGTCCCTCTCATGACAACTCAGTGTTGAAGCCCAGTGTCCTCAGCTTCA
TGTCCAGTGGATGGCAGAAGTTCATGGGGTAGTGGCCTCTCAAAGGCTGGGCGCATCCCAAGACAGCCAGCAGGT
TGTCTCTGGAAACGACCAGAGTTAAGCTCTCGGCTTCTCTGCTGAGGGTGACCCCTTTCCTCTAGATGGTAGTTG
TCACGTTATCTTTGAAAACCTCTTGGACTGCTCCTGAGGAGGCCCTCTTTTCCAGTAGGAAGTTAGATGGGGGTTT
TCAGAAGTGGCTGATTGGAAGGGGACAAGCTTCGTTTCAGGGGTCTGCCGTTCCATCCTGGTTTCAGAGAAGGCCG
AGCGTGGCTTTCTCTAGCCTTGTCACTGTCTCCCTGCCGTGCAATCACCACCTTTCCTCCAGAGGAGGAAAATTA
TCTCCCTGCAAAGCCCGGTTCTACACAGATTTACAAATTGTGCTAAGAACCGTCCGTGTTCTCAGAAAGCCCA
GTGTTTTTGC AAAGAATGAAAAGGGACCCCATATGTAGCAAAAATCAGGGCTGGGGGAGAGCCGGGTTTCATTCCC
TGTCTCATTGGTCGTCCCTATGAATTGTACGTTTCAGAGAAATTTTTTTCCTATGTGCAACACGAAGCTTCCA
GAACCATAAAATATCCCGTCGATAAGGAAAGAAAATGTCGTTGTTGTTTCTGGAACTGCTTGAAATCTT
GCTGTACTATAGAGCTCAGAAGGACACAGCCCGTCCCTCCCTGCCGTGCTGATTCCATGGCTGTTGTGCTGATT
CAATGCTTTCACGTTGGTTCCTGGCGTGGGAAGTGTCTCCTTTCAGCCCCATTCCCAAGCTCTGTTCAAGTT
AACTTATGTAAGCTTTCGTTGGCATGCGGGGCGCGCACCACGTCCCGCTGCGTAAGACTCTGTATTTGGATG
CCAATCCACAGGCCTGAAGAACTGCTTGTGTGTATCAGTAATCATTAGTGGCAATGATGACATTCTGAAAAGC
TGCAATACTTATACAATAAAATTTTACAATTCTTTGG

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FIGURE 5824

GCGCGCCACCCGGTAGAGGACCCCGCCCGTGCCCCGACCGGTCCCCGCCTTTTTGTAAACTTTAAAGCGGGCG
CAGCATTAACGCTTCCCGCCCCGGTGACCTCTCAGGGGTCTCCCCGCCAAAGGTGCTCCGCCGCTAAGGAACATG

GCGAAGGTGGAGCAGGTCTTGAGCCTCGAGCCGCAGCAGAGCTCAAATTCGAGGTCCCTTCACCGATGTTGTC
ACCACCAACCTAAAGCTTGGCAACCCGACAGACCGAAATGTGTGTTTTAAGGTGAAGACTACAGCACCACGTAGG
TACTGTGTGAGGCCAACAGCGGAATCATCGATGCAGGGGCCCTCAATTAATGTATCTGTGATGTTACAGCCTTTC
GATTATGATCCCAATGAGAAAAGTAAACACAAGTTTATGGTTTCAGTCTATGTTTGCTCCAAGTACACTTCAGAT
ATGGAAGCAGTATGGAAGGAGGCAAAACCGGAAGACCTTATGGATTCAAACCTTAGATGTGTGTTTGAATTGCCA
GCAGAGAATGATAAACACCATGATGTAGAAATAAAATAAAATTATATCCACAAGTGCATCAAAGACAGAAACACCA
ATAGTGTCTAAGTCTCTGAGTTCTTCTTTGGATGACACCGAAGTTAAGAAGGTATGGAAGAATGTAAGAGGCTG
CAAGGTGAAGTTTCAGAGGCTACGGGAGGAGAAACAAGCAGTTCAAGGAAGAAGATGGACTGCCGATGAGGAAGACA
GTGCAGAGCAACAGCCCCATTTACAGCATTAGCCCCAACTGGGAAGGAAGAAGGCCCTTAGCACCCGGCTCTTGGCT
CTGGTGGTTTTTGTCTTTATCGTTGGTGTAATTATTGGGAAGATTGCCTTGTAGAGGTAGCATGCACAGGATGGT
AAATTGGATTGGTGGATCCACCATATCATGGGATTTAAATTTATCATAACCATGTGTAAAAAGAAATTAATGTAT
GATGACATCTCACAGGTCTTGCCCTTTAAATTACCCCTCCCTGCACACACATACACAGATACACACACACAAATAT
AATGTAACGATCTTTAGAAAGTTAAAAATGTATAGTAACTGATTGAGGGGGAAAAGAATGATCTTTATTAATGA
CAAGGGAAACCATGAGTAATGCCACAATGGCATATTGTAAATGTCATTTTAAACATTGGTAGGCCCTTGGTACATG
ATGCTGGATTACCTCTCTTAAATGACACCCTTCCCTCGCCTGTTGGTGCTGGCCCTTGGGGAGCTGGAGCCCAGC
ATGCTGGGGAGTGCGGTCAGCTCCACACAGTAGTCCCCACGTGGCCCACTCCCGGCCAGGCTGCTTTCCGTGTC
TTCAGTTCTGTCCAAGCCATCAGCTCCTTGGGACTGATGAACAGAGTCAGAAGCCCAAAGGAATTGCACTGTGGC
AGCATCAGACGTACTCGTCATAAGTGAGAGGCGTGTGTTGACTGATTGACCCAGCGCTTTGGAAATAAATGGCAG
TGCTTTGTTCACTTAAAGGGACCAAGCTAAATTTGTATTGGTTCATGTAGTGAAGTCAAACCTGTTATTCAGAGAT
GTTAATGCATATTTAACTTATTTAATGTATTTTATCTCATGTTTTCTTATTGTACAAAGAGTACAGTTAATGCT
GCGTGCTGCTGAACTCTGTTGGGTGAACTGGTATTGCTGCTGGAGGGCTGTGGGCTCCTCTGTCTCTGGAGAGTC
TGGTCATGTGGAGGTGGGGTTTATTGGGATGCTGGAGAAGAGCTGCCAGGAAGTGTTTTTTCTGGGTACAGTAAAT
AACAACTGTCATAGGCAGGGAAATTCCTCAGTAGTGACAGTCAACTCTAGGTTACCTTTTTTAATGAAGAGTAGTC
AGTCTTCTAGATTGTTCTTATACCACCTCTCAACCATTACTCACACTTCCAGCGCCAGGTCCAAGTTTGAGCCT
GACCTCCCCCTTGGGGACCTAGCCTGGAGTCAGGACAAATGGATCGGGCTGCAAAGGGTTAGAAGCGAGGGCACCA
GCAGTTGTGGGTGGGGAGCAAGGGAAGAGAGAACTCTTCAGCGAATCCTTCTAGTACTAGTTGAGAGTTTGACT
GTGAATTAATTTTATGCCATAAAAGACCAACCCAGTTCTGTTTGACTATGTAGCATCTTGAAAAGAAAAATTATA
ATAAAGCCCCAAAATTAAGA

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FIGURE 5825

MAKVEQVLSLEPQHELKFRGPFDTDVVTNLKLGNP TDRNVCFKVKT TAPRRYCVRPNSGIIDAGASINVSVM LQP
FDYDPNEKSKHKFMVQSMFAP TDTSDMEAVWKEAKPEDLMD SKLRV FELPAENDKPHDVEINKIISTTASKTET
PIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPISALAPTGKEEGLSTRLL
ALVVLFFIVGVIIGKIAL

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FIGURE 5826

CTCGCCTCAGTCTCCTCTGTCTCTCCAGGCAAGAGGACCGGCGGAGGCACCTCTCTCGAGTCTTAGGCTGCGG
AATCTAAGACTCAGCGAGAGGAGCCCGGGAGGAGACAGAACCTTTCCCTTTTTTCCCATCCCTTCTTCTTGCTCA
GAGAGGCAAGCAAGGCGCGGAGCTTTAGAAAGTTCTTAAGTGGTCAGGAAGGTAGGTGCTTCCCTTTTTCTCCTC
ACAAGGAGGTGAGGCTGGGACCTCCGGGCCAGCTTCTCACCTCATAGGGTGTACCTTTCCCGGCTCCAGCAGCCA
ATGTGCTTCGGAGCCGCTCTCTGCAGAGCCAGAGGGCAGGCCGGCTTCTCGGTGTGTGCCTAAGAGGATCGATCG
GAGGTCCCGGGCTCAGCAGTGGCGCCGAGCTCGCCATAATTACAACGACCTGTGCCCGCCCATAGGCCGCGGGC
AGCCACCGCGCTCCTCTGGCTCTCCTGCTCCATCGCGCTCCTCCGCGCCCTTGCCACCTCCAACGCGCGTGCCCA
GCAGCGCGCGGCTGCCCAACAGCGCCGGAGCTTCTTAACGCCCACCACCGCTCCGGCGCCAGGTATTCCCTGA
GTCCCCCGAATCGGAATCTGACCACGAGCAGGAGGAGGACCTTGAGCTGTCCCTCCCGAGTGCCTAGAGTA
CGAGGAAGAGTTTCGACTACGAGACCGAGAGCGAGACCGAGTCCGAAATCGAGTCCGAGACCGACTTCGAGACCGA
GCCTGAGACCGCCCCCACCCTGAGCCCGAGACCGAGCCTGAAGACGATCGCGGCCCGGTGGTGCCCAAGCACTC
CACCTTCGGCCAGTCCCTCACCCAGCGTCTGCACGCTCTCAAGTTGCGAAGCCCCGACGCTCCCAAGTCGCGC
GCCGCCAGCACTCAGGAGCCCCAGAGCCCCAGGGAAGGGGAGGAGCTCAAGCCCGAGGACAAAGATCCAAGGGA
CCCCGAAGAGTCGAAGGAGCCCAAGGAGGAGAAGCAGCGGCGTCTGCTGCAAGCCAAAGAAGCCACCCGCGTGA
CGCGTCCCCGGAGTCCCTTCCAAAAAGGGACCCATCCCCATCCGGCGTCACTAATGGAGGACGCGCTCCAGATT
CTCCTTGTTTTTCATGGATTTCAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATGAGGATCCTGCAT
GTTAATGGGTTTAATGGAGAGGGCGGCGAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGATGGCAGTGAGAAG
GCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTTGTGGCCGCATGAGCAACCTG
GTGCCCCCGTGGAGCTGGCCAACCCCGAGAACCAGTTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCT
GACTTTGACTTCCCTCCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCCTGCTAC
GAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCT
GACTATGTGCCGAGCGATCAGGACCTGCTTCCGTGCCGTGTCTGACTTCTGGAATCTTTGAGACCAAGTTCCAG
GTGGACAAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTC
AACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACC
AACCGCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATC
CTGTTCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCA
GAATTTGCTCGCTACACTACTCTGAGGATGCTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAG
TACTTCATTTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCCTCATTTT
ACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTCAGCGCATGCACCTT
CGTCAGTACGAGCTGCTCTAAGAAGGGAACCCCCAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGTGA
ACGTAATTGTACAAGCAGTTAATCACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCCCCGAGTGA
TTTTGCGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAA
AAGGAAAAAAGGCCACAAAAGTTCCCTCTCACTTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAAACAAATAAAA
TGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAAATTAATGTG
AGCAAAGAAAAAAA

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FIGURE 5827

MDRRSRAQQWRRARHNYNDLCPPIGRRAATALLWLSCSIALLRALATSNARAQQRAAAQRRSFLNAHHRSGAQV
FPESPESEDHEHEEADLELSLPECLEYEEEFDYETESETESIETDFETEPETAPTTEPETEPEDDRGPVVP
KHSTFGQSLTQRLHALKLRSPDASPSRAPSTQEPQSPREGEELKPEDKDPRDPESKEPKKEEQRRRCKPKKPT
RRDASPESPSKKGPIPIRRH

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FIGURE 5828

ATGCAGGCCTTGAGGCTTCGGCCAGCACTCATGGAGCCCGGAGCCTTCAGTGGTGCCAGACCAGGCCTGGGAGGA
TACAGCCCTCCACCAGAAGAAGCTATGCCCTTTGAGTTTGACCAGCCTGCCAGAGAGGCTGCAGTCAACTTCTC
TTACAGGTCCCAGACCTTGCTCCAGGAGGCCAGGTGCTGCAGGGGTCCCGGAGCTCCTCCCGAGGAGCCCCAA
GCCCTCAGGCCTGCAAAGGCTGGCTCCAGAGGAGGCTACAGCCCTCCCCTGAGGAGACTATGCCATTTGAGCTT
GATGGAGAAGGATTTGGGGACGACAGCCCACCCCGGGGCTTTCCCGAGTTATCGCACAAAGTCGACGGCAGCAGC
CAGTTCGCGGCAGTCGCGGCCTCGAGTGCAGTCCGCTCACTCCCGCCGCAACGCGCCTCCCTCTGGGTCCCA
GGCGCCATCGGCAGCCCATCCCAAGAGGCTGTACAGACCTCCTTCTAATTACGGGCAGCAGCCCTGGATGGAG
ATCTCCGGACCCCCGTTTCGAGATTGGCAGCGCCCCGCTGGGGTGCAGCACACTCCCGTCAACATGGACAGCCCC
CCAATCGCGCTTGACGGCCCGCCATCAAGGTCTCCGGAGCCCCAGATAAGAGAGAGCGAGCAGAGAGACCCCCA
GTTGAGGAGGAAGCAGCAGAGATGGAAGGAGCCGCTGATGCCGCGGAGGGAGGAAAAGTACCCTCTCCGGGGTAC
GGATCCCCCTGCCGCCGGGGCAGCCTCAGCGGATACCGCTGCCAGGGCAGCCCCCTGCAGCCCCAGCCGATCCTGAC
TCCGGGGCAACCCAGAAAGATCCCGACTCCGGGACAGCACCAGCCGATCCTGACTCCGGGGCATTTCGACGCCGAT
CCCGACTCCGGGGCAGCCCCCTGCCGCCCCAGCCGATCCCGACTCCGGGGCGGCCCTGACGCCCCAGCCGATCCC
GACTCCGGGGCGGGCCCTGACGCCCCAGCCGATCCAGATGCCGGGGCGGCCCTGAGGCTCCCGCCGCCCTGCG
GCTGCTGAGACCCGGGCAGCCCATGTGCCCCAGCTGCGCCAGACGCAGGGGCTCCCACTGCCCCAGCCGCTTCT
GCCACCCGGGCAGCCCAAGTCCGCCGGGCGGCCCTCTGCAGCCCTGCCCTCCGGGGCCAGACGCAAGATCCATCTC
AGACCCCCCAGCCCCGAGATCCAGGCTGCCGATCCGCCTACTCCGCGGCTACTCGCGCTGCTGCTGGCGGGG
AAGTCCGAGAGCAGCCGCGGCCGCGCTGTACTACGATGAAGGGGTGGCCAGCAGCGACGATGACTCCAGCGGA
GACGAGTCCGACGATGGGACCTCCGGATGCCTCCGCTGGTTTACGATCGGCGAAATCGCCGCCGCCGAAAGCCC
CAGCGCAACTTACTCCGCAACTTTCTCGTGCAAGCCTTCGGGGGCTGCTTCGGTCGATCTGAGAGTCCCCAGCCC
AAAGCCTCGCGCTCTCTCAAGGTCAAGAAGGTACCCCTGGCGGAGAAGCGCAGACAGATGCGCAAGAAGCCCTG
GAGAAGCGGGCCCAGAAGCGCGCAGAGAAGAAACGCAGTAAGCTCATCGACAAACAACCTCCAGGACGAAAAGATG
GGCTACATGTGTACGACCGCCTGCTGCTTCTAGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGATG
AGGATCCTGCATGTTAATGGGTTTAAATGGAGAGGGCGGCCAAGAGGACCCGAGGCTGCAAGGAGCAACAGCGAT
GGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAACAACCTGAAAGAGGCGATTGAAACCATTGTGGCCGCCATG
AGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCGAGAACCAGTTCAGAGTGGACTACATCCTGAGTGTGATG
AACGTGCCTGACTTTGACTTCCCTCCGAATTCTATGAGCATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCT
GCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACTGTGCCAGTACTTCTTGACAAGATCGACGTGATC
AAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTCGCTGCCGTGCTCTGACTTCTGGAATCTTTGAGACC
AAGTTCAGGTGGACAAAGTCAACTTCCACATGTTTGACGTGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATC
CAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGGCCAGCAGCAGCTACAACATGGTCATCCGGGAGGAC
AACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCAAGAGCATCTGGAACAACAGATGGCTGCGCACCATC
TCTGTGATCCTGTTCCCTCAACAAGCAAGATCTGCTCGCTGAGAAAGTCTTGCTGGGAAATCGAAGATTGAGGAC
TACTTTCCAGAATTTGCTCGCTACACTACTCCTGAGGATGCTACTCCCGAGCCCGAGAGGACCCACGCGTGACC
CGGGCCAAGTACTTCATTTCGAGATGAGTTTCTGAGGATCAGCACTGCCAGTGGAGATGGGCGTCACTACTGCTAC
CCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCCGTGTGTTCAACGACTGCCGTGACATCATTACGCGC
ATGCACCTTCGTGAGTACGAGCTGCTC**TAAGA**AGGGAACCCCCAAATTAATTAAAGCCTTAAGCACAATTAATT
AAAAGTGAAACGTAATTGTACAAGCAGTTAATACCCACCATAGGGCATGATTAACAAAGCAACCTTTCCCTTCC
CCCGAGTGATTTTGCAGAAACCCCTTTTCCCTTCAGCTTGCTTAGATGTCCAAATTTAGAAAGCTTAAGGCGGC
CTACAGAAAAAGGAAAAAGGCCACAAAGTTCCCTCTACCTTTCAGTAAAAATAAAATAAACAGCAGCAGCAAA
CAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATTGTGTTGTGCAGCATTAAAAAAAATCAAAATAAAAA
TTAAATGTGAGCAAAG

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FIGURE 5829

MQALRLRPALMEPGA FSGARPG LGGYSPPPEEAMPFEFDQPAQRGCSQLLLQVPDLAPGGPGAAGVPGAPPEEPQ
ALRPAKAGSRGGYSPPPEETMPFELDGEFGDDSPPPGLSRVIAQVDGSSQFAAVAASSAVRLTPAANAPPLWVP
GAIGSPSQEAVRPPSNFTGSSPWMEISGPPFEIGSAPAGVDDTPVNMDSPPIALDGPPIKVSGAPDKRERAERPP
VEEEAAEMEGAADAAEGGKVPSPGYGSPAAGAASADTAARAAPAAPADPD SGATPEDPD SGTAPADPD SGAFAD
PD SGAAAPAAPADPD SGAAPDAPADPD SGAAPDAPADPDAGAAPEAPAAPAAAETRAAHVAPAAPDAGAPTAPAAS
ATRAAQVRRRAASAAPASGARRKIHLRPPSPEIQAADPPTPRPTRASAWRGKSESSRGRRVYYDEGVASSDDSSG
DESDDGTSGCLRWFQHRRNRRRRK PQRNLLRNFLVQAFGGCFGRSESPQPKASRSLKVKKVPLAEKRRQMRKEAL
EKRAQKRAEKKRSLIDKQLQDEKMGYMC THRLLLGAGESGKSTIVKQMRILHVNGFN GEGGEEDPQAARSND
GEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDEGVR
ACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQORDERRKWI
QCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLAKSKIED
YFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCYPHFTCAVD TENIRRVFNDCRDIIQR
MHLRQYELL

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[illegible]

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FIGURE 5831

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNNEGEGEE
DPQAARSNSDGEKATKVQDIKNNLKEAIETIVAAMS NLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHA
KALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVG
GQDERRKWIQCFNDVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEK
VLAGKSKIEDYFPEFARYTTPEDATPEPGEDPRVTRAKYFIRDEF LRISTASGDGRHYCYPHFTCAVDTENIRRV
FNDCRDIIQRMHLRQYELL

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FIGURE 5832

CCGCCGCCGCCGAGCCCGGCCGCCGCCGCCGCCGCCGCCGCCGCCATGGGCTGCCTCGGGAACAGTAAGACCG
AGGACCAGCGCAACGAGGAGAAGGCGCAGCGTGAGGCCAACAAAAAGATCGAGAAGCAGCTGCAGAAGGACAAGC
AGGTCTACCGGGCCACGCACCGCCTGCTGCTGCTGGGTGCTGGAGAATCTGGTAAAAGCACCATTGTGAAGCAGA
TGAGGATCCTGCATGTTAATGGGTTTAATGGAGACAGTGAGAAGGCAACCAAAGTGCAGGACATCAAAAAACAACC
TGAAAGAGGCGATTGAAACCATTGTGGCCGCCATGAGCAACCTGGTGCCCCCGTGGAGCTGGCCAACCCCGAGA
ACCAGTTCAGAGTGGACTACATCCTGAGTGTGATGAACGTGCCTGACTTTGACTTCCCTCCCGAATTCTATGAGC
ATGCCAAGGCTCTGTGGGAGGATGAAGGAGTGCCTGCTACGAACGCTCCAACGAGTACCAGCTGATTGACT
GTGCCCAGTACTTCTGGACAAGATCGACGTGATCAAGCAGGCTGACTATGTGCCGAGCGATCAGGACCTGCTTC
GCTGCCGTGTCCTGACTTCTGGAATCTTTGAGACCAAGTTCCAGGTGGACAAAGTCAACTTCCACATGTTTGACG
TGGGTGGCCAGCGCGATGAACGCCGCAAGTGGATCCAGTGCTTCAACGATGTGACTGCCATCATCTTCGTGGTGG
CCAGCAGCAGCTACAACATGGTCATCCGGGAGGACAACCAGACCAACCGCCTGCAGGAGGCTCTGAACCTCTTCA
AGAGCATCTGGAACAACAGATGGCTGCGCACCATCTCTGTGATCCTGTTCTCAACAAGCAAGATCTGCTCGCTG
AGAAAGTCCTTGCTGGGAAATCGAAGATTGAGGACTACTTTCCAGAATTTGCTCGCTACACTACTCTGAGGATG
CTACTCCCGAGCCCGGAGAGGACCCACGCGTGACCCGGGCCAAGTACTTCATTTCGAGATGAGTTTCTGAGGATCA
GCACTGCCAGTGGAGATGGGCGTCACTACTGCTACCCTCATTTACCTGCGCTGTGGACACTGAGAACATCCGCC
GTGTGTTCAACGACTGCCGTGACATCATTTCAGCGCATGCACCTTCGTGAGTACGAGCTGCTCTAGAAGGGAACC
CCCAAATTTAATTAAAGCCTTAAGCACAAATTAATTAAGAGTGAACGTAATTGTACAAGCAGTTAATCACCACCC
ATAGGGCATGATTAAACAAAGCAACCTTTCCCTTCCCCCGAGTGATTTTGCGAAACCCCTTTTCCCTTCAGCTTG
CTTAGATGTTCCAAATTTAGAAAGCTTAAGGCGGCCTACAGAAAAAGGAAAAAGGCCACAAAAGTTCCCTCTCA
CTTTCAGTAAAAATAAATAAAACAGCAGCAGCAAACAAATAAAATGAAATAAAAGAAACAAATGAAATAAATATT
GTGTTGTGCAGCATTAAAAAAAATCAAAATAAAATTAATGTGAGCAAAG

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FIGURE 5833

MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTIVKQMRILHVNGFNDS
SEKATKVQDIKNNLKEAIETIVAAMSNLVPPVELANPENQFRVDYILSVMNVPDFDFPPEFYEHAKALWEDE
GVRACYE RSNEYQLIDCAQYFLDKIDVIKQADYVPSDQDLLRCRVLTSGIFETKFQVDKVNFMFDVGGQ
RDERRKWIQCFN DVTAIIFVVASSSYNMVIREDNQTNRLQEALNLFKSIWNNRWLRTISVILFLNKQD
LLAEKVLAKGSKIEDYFPE FARYTTPEDATPEPGEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFT
CAVDTENIRRVFNDCRDI IQRMHLR QYELL

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FIGURE 5834

GGGGTCGGCCGGGTGCTGGGCCGAGGCCGAGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGAC
TCGGAGCGGGATCCGGAGCGGGACCCAGGAGCCGGCGCGGGGCCATGCGAGGCGCGGGCCAGGGTGGCGGCCGC
TTCTGCTGCTCGTGCTGCTGGCGGGCGCGGCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGC
CTCTGCGGGGGGACGGGCTGGCTCCGCTGGGGCGCAGCACATACCCCGGCCTCATGAGTACCTGTCCCCAGCGG
ATCTGCCCAAGAGCTGGGACTGGCGCAATGTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCC
CCCAATACTGCGGCTCCTGCTGGGCCACGCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGG
GAGCGTGGCCCTCCACCCTCCTGTCCGTGCAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTA
ATGACCTGTCCGTGTGGGACTACGCCACCAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGG
ACCAGGAGTGTGACAAGTTTAACCAATGTGGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACA
CCCTCTGGAGGGTGGGAGACTACGGCTCCCTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTATGCAAAATGGTC
CCATCAGCTGTGGAATAATGGCAACAGAAAGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACA
CCACATATATAAACCATGTCTGTTTTCTGTGGCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGA
ATTCATGGGGTGAACCATGGGGCGAGAGAGGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCG
CCAGATACAACCTTGCCATCGAGGAGCACTGTACATTTGGGGACCCCATCGTTTAAAGGCCATGTCACTAGAAGCG
CAGTTTAAAGAAAAGGCATGGTGACCCATGACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGA
ACTGGGGTGGCTATCAATATTGGATGGCGAGGACAGCGTGGCACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTG
GGATGACTTATGACACTTGACAGCATGGCTCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACC
TGCGACACAGGAAACGATGGGACCTCAGTCTTCTTCAGCAGAGGACTTGATATTTGTATTGGCAACTGTGGGC
AATAATATGGCATTAAAGAGGTGAAAGAGTTCAGACTTATCACCATTCTTATGTCACTTTAGAATCAAGGGTGGG
GGAGGGAGGGAGGGAGTTGGCAGTTTCAAATCGCCAAGTGATGAATAAAGTATCTGGCTCTGCACGAG

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FIGURE 5835

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRSTYPRPHEYLSPADLPKSWDWRNV DGVN
YASITRNQHIPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGP
DETCNNYQAKDQECDKFNQCGTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYAEYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWL RIVTSTYKD GKGARYNLAIEEHCTFGD
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FIGURE 5836

CGGGTAGCGGCTCTGAAAGTTTATGACCGCCGAGCCAACTCCTGGCCGGAGCTGGAGACGCAGCGAGCGATCG
GCCGGCCTCGAACCCCCACAGCTGGAGGGCGAGGCCAGCTGTACCCGGCCCCAGTGCCCTTTCGCGGCCACAAGC
GGCCGTCTCTCGGTCCGGTGCTCCGGCGCCTGATCTAGGTTCTATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCT
CACAGTGACCTCCGCCGCAGGATTTCGTGCCTTGCTCCAGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCAGGC
CCCCACTGCAGCCAGATCTGAGGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCC
TGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGA
GGGGGCCCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTG
CCACCTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAACCTACAGAGGAAGCTT
CCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTG
TGTGGGGAGATATGACAAGGCCTGCCTGCACTTTTGCACCCAACTCTGGACGTCAGCAGTAATCAAGGACGGC
AGAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTCCA
CCATCCAAAGCTCATGCCCGGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGTGCCTCTTTTCAGGAAGG
AGCCCCCTTAGGAGGACAGGCCTGCAGCTCCAATTTTCATGCAGGAAATTGGTTTTGGAGAGTTTGGCAAGTTGGA
AAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCCAAGCTAACTCTTTGCAAATGTAA
ACACATGTCCATCTTGTTAATAAATGCAAAATGCCCGTGAGCAGAAGCATGCGACTTTCATATCCTTGCTTAGA
ATAGGCTGCATGGTGTATGTGAGTGGGGCCACGAGGCGTCGGCTTTAGACACAGATCATAGCTCTACAGGAGTT
TATGAATTTGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAAGAATGTATCT
CGAAAGAATGAAGGAAGAAGAAAAAAGGATCCTTGATGTTTGTGACAAGAAAATGAGAAAGTTAGTATCTGCAAT
ACAGAGCTTGTTTCTGTTTCTGAGTACTGACCTCTGTATTCTGTATAGACACCAGGCCGATACACAGTGGAGTTCC
CAGGCCTTGTTTGAGGAAGCCGACTGTAAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTTCAT
GAGTAAATGTGGATCTTTGGGGAATGGCTTCAAATAAGTCACGAACACAAATTCCTTGTAATTTATGTAAATTC
CTGTTTATATAAATTGGCAACAACCTTATACCGTCTGACAGTTCAAATCTCTTTCAGCTGCGCTCTTCCCACCGA
GCCGAGCTTACTGTGAGTGTGGAGATGTTATCCACCATGTAAAGTCGCCTGCGCAGGGGAGGGCTGCCCATCTC
CCCAACCCAGTCACAGAGAGATAGGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGAT
GGTGTATGACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGTATTTTATAAGTTATTACAGGTATAA
AAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTTTGTACAGTTTAGAGAAGCGATT
ATTTATTGTGAACTGTTCTCCACTCCAACCTCTTTATGTGGATCTGTTCAAAGTAGTCACTGTATATACGTATA
GAGAGGTAGATAGGTAGGTAGATTTTAAATTGCATTCTGAATACAACTCATACTCCTTAGAGCTTGAATTACAT
TTTTAAATGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCTCAAATAC
TCAGAAAGTACTGTCAAAAGCCTAATAAAAAACCTAAAGTTTGCTCTG

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FIGURE 5837

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTALQGGS
PGSPGQEQAAEGAPEHHRSRRCTCFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKRSAGPLPGNLQ
LSHRPHLRCA CVGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEEGKVEVKDQQSKQALDLHHPKLMPGSGLALAP
STCPRCLFQEGAP

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FIGURE 5838

GGCACGAGGCGGCCGCCCGCCGGCATGAGCTACGACCGCGCCATCACCGTCTTCTCGCCCCGACGGCCACCTCTTC
CAAGTGGAGTACGCGCAGGAGGCCGTCAAGAAGGGCTCGACCGCGGTTGGTGTTCGAGGAAGAGACATTGTTGTT
CTTGGTGTGGAGAAGAAGTCAGTGGCCAACTGCAGGATGAAAGAACAGTGC GGAAGATCTGTGCTTTGGATGAC
AACGTCTGCATGGCCTTTGCAGGCCTCACCGCCGATGCAAGGATAGTCATCAACAGGGCCCCGGGTGGAGTGCCAG
AGCCACCGGCTGACTGTAGAGGACCCGGTCACTGTGGAGTACATCACCGCTACATCGCCAGTCTGAAGCAGCGT
TATACGCAGAGCAATGGGCGCAGGCCGTTTGGCATCTCTGCCCTCATCGTGGGTTTCGACTTTGATGGCACTCCT
AGGCTCTATCAGACTGACCCCTCGGGCACATACCATGCCTGGAAGGCCAATGCCATAGGCCGGGGTGCCAAGTCA
GTGCGCGAGTTCCTGGAGAAGAACTATACTGACGAAGCCATTGAAACAGATGATCTGACCATTAAGCTGGTGATC
AAGGCACTCCTGGAAGTGGTTCAGTCAGGTGGCAAAAACATTGAACTTGCTGTCATGAGGCGAGATCAATCCCTC
AAGATTTTAAATCCTGAAGAAATTGAGAAGTATGTTGCTGAAATTGAAAAGAAAAAGAAGAAAACGAAAAGAAG
AAACAAAAGAAAGCATCATTGATGAATAAAATGTCTTTGCTTGTAAATTTTAAATTCATATCAATCATGGATGAGT
CTCGATGTGTAGGCCTTTCCATTCCATTTATTACACTGAGTGTCTTACAATAAACTTCCGTATTTTT

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FIGURE 5839

MSYDRAITVFSPDGHLFQVEYAQEAVKKGSTAVGVRGRDIVVLGVEKKSVAKLQDERTVRKICALDDNVCMAFAG
LTADARIVINRARVECQSHRLTVEDPVTVEYITRYIASLKQRYTQSNRRPFGISALIVGFDFDGTPLRYQTDPS
GTYHAWKANAIGRGAKSVREFLEKNYTDEAIETDDLTIKLVIKALLEVVQSGGKNIELAVMRRDQSLKIILNPEEI
EKYVAEIEKEKEENEKKKQKKAS

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FIGURE 5840A

GCAGCCGGAGTATCCACCTCGATGACCACGGGCTGAGCCCCGCGCCGCCACC**ATG**TCCGTGGCCTTCGCGTCTGC
CCGGCCAAGAGGCAAAGGGGAGGTTACGCAGCAAACCATCCAGAAGATGCTGGACGAGAACCACCACCTGATCCA
GTGCATCCTGGAGTACCAGAGCAAGGGCAAGACGGCCGAGTGCACGCAGTACCAGCAGATCCTGCACCGGAACCT
GGTATACCTGGCCACGATCGCAGACTCCAACCAGAACATGCAGTCCCTGCTTCTGCCCCGCCCACGCAGAACAT
GAACCTGGGGCCCTGGAGCCCTGACTCAGAGCGGCTCCAGCCAGGGCCTGCACTCTCAGGGCAGCCTGAGTGACGC
CATCAGCACGGGCCTGCCACCCTCCTCCCTCCTGCAGGGCCAGATTGGCAACGGGCCGAGCCACGTGTCCATGCA
GCAGACGGCGCCTAACACGCTGCCCACCACCTCCATGAGCATCTCTGGGCCCGGCTACAGCCACGCGGGACCCGC
CTCGCAGGGCGTCCCCATGCAGGGGCAAGGCACCATCGGCAACTACGTGTCTCGGACCAACATCAACATGCAGTC
CAACCCAGTCTCCATGATGCAGCAGCAGGCGGCCACGTGCGACTACAGCTCGGCGCAGGGCGGCAGCCAGCACTA
CCAGGGCCAGTCGTCCATGCCATGATGGGGCAGGGCAGCCAGGGGAGCAGCATGATGGGCAGCGGCCCATGGC
GCCCTACCGGCCCTCCAGCAAGGCTCTTCCAGCAGTACCTGGGCCAGGAGGAGTACTATGGCGAGCAGTACAG
CCACAGCCAGGGCGCCGCGGAGGCCATGGGCCAGCAGTACTACCCCGACGGCCATGGCGATTACGCCTACCAGCA
GTCACTCTACACGGAGCAGAGCTACGACCGGTCCTTCGAGGAGTCCACGCAGCACTACTATGAGGGGGGAAACTC
CCAGTACAGCCAGCAGCAGGCGGGTACCAGCAGGGTGCCGCGCAGCAGCAGACGTACTCCCAGCAGCAGTACCC
CAGCCAGCAGAGCTACCCCGGGCAGCAGCAGGGCTACGGGTCGCCCAGGGAGCCCCGTCACAGTACCCCGGCTA
CCAGCAAGGCCAAGGCCAGCAGTACGGAAGCTACCGAGCACCAGCAGCAGCGCCGTCTGCCCAGCAGCAGCGGCC
CTACGGCTATGAACAGGGCCAGTATGGAAATTACCAGCAGTAAAGGACACACATTCTGGCTGGAGCCCTTGTGGT
AGCGTGTTTCATCCAGGGGCCGATGGGCTGGCGGCAGCTCTGGTGAATTGTGACATGTTGGTTACCTGTTGCCCC
AGTGCCACGTCTGCATGTGAAGCGTGCTCATTTCATGCTGGGTATGACGCCGAGCGCACACCACTGGCGTGAGAC
AGCGCTTGGTGGTGTGATACTTTTGGTGCTGTGTATAGTATTGTATGTGCGGTACACGGAGAGGTATCCTTTTTTT
GTCCCCCGCCCCCTTCTCAATGTTTCTAGCTAGCTTTGGGGGTCATTTTGTATCAGAGCATTCTGTGCCAGGG
ACAGGACAGATCTCGAGGACACCACAGTCCACCTGTTCCCGTCAACAGACGTTAGGTCTCATTTCCTCCTCATG
CAGTGTGTAGTGTGGGTTGTCAACTTTTCTTAACTGGCTACGCCACAGCTGGACACACATGCAGCCCCCTGGAG
GGCAGCCTCTTCTGTGCTCGATGGGGTGGGTGGGAGGGCATCTTCTGTGCGTTGGGTGAGTTTCTGTACGTA
ACGAAAAGGATAAACATCTCCACGGGAGAGGCCACAGATGGCCACTTCCAGAGCTTGCCCATTGCCCTGTCTCTC
GCCAATTCCGTTTATCCAAAAGGTACATGTTTTTGTATTAAAAAGTAAACAGGGATCAGTGACTGTATTCCAAA
TAAATATGAATCCCTAAGGGCCGTGGACAAATTGCCTAACCCAGGGCCAGCGGTATTGCTGAAGGAAAGGGGCG
CTCTCTGGGAAGTGGGCCCTCAGAGATTACTCTGGCTTGACCCCTTGTTTAGCTGATGGTCATTCTGGGATTGG
AATATTTAATAAGCCCAATTCTAAGTTGATAGGTAATTTTAAATATTCAAACCAATCTTCCCAACAGTTGGCAA
GTTGTTTATTTTATATTATTTCTTCCAGGACCTACTTGCTCAGATCTCCAAGCAAGCATTCTTTTCTTTTAGGG
ATGCTGAAAGTCACATCCAGTTACATTACTGTGTTCTTCTAATGAAAAGTAAAGGTTTATATAGAGAACTT
GAGTAATTTTACATTTCTAAGACATTAAATCCCATTTAAATTCGTGTGAACATTAAAGACAGCACACTTGCAA
AAGTATGGTCAAAGGAAAAAATCCACATTTCAATTAACAAGTAGCATGGACATTGATCAACCTTTAGTTGGA
ATAATAATATTCATATTTGCTATGAATCCTTTTAAAAAATCTTTGGATAAATGCTGACAGATTTCCAAGAATA
CCAAGAAAATACAAGAGATATCCAATGCTTGATATATGAGGCCATAGTAATAACGATATTTCTCTTTAATTGATGT
TTTGTTTTAAAGTTAAAGTAATTCCTTGGCGTGGTGGTTCACGCCTGTAATCCAGCACTTTGGGAGGCCGAAG
CGGGCGGATCACCTGAGGTCGGGAGTTTCGAGACCAGCCTGACCAACATGGAGAAACCCCGTCCCTACTAAAAATA
CAAAATTAGCCAGGTATGGTGGTGCATACCTGTAATCCAGCTACTCGGGAACCTGAGGCAGGAGAATGGCTTGA
ACCCAGGAGACAGAGGTTGTGGTGGGGCAAGATCGCACCATTGCACCCGAGCCTAGGCAACAAGAGTGAAATTC
GTCTCAAAAAAATAAATAAATAAATAAATAAAGTTAAATTAATTCTTTATCCAGAGTCGGGTGCTTTAGAA
TTTATAAGTCACCTTATGTGTTTTGCTTGAATTAATTCTGACAGCCCTATGAGGAAATCTGGAGGCAGGTAACAG
TTCCCATTTTATAGAGATGAAGAACTGAGGCACAGATTAAAGGACTTGCCGTGTTGAATACCAGTCTGTCTAGG
ACATTCTCCCTCTCCTAGGAGACGGATGTCACGCACAAATGGGGAGAGAAGTGTATTATTTGTAGGCACTAAGG
GTTTCTAAAACCTTAACACTGGTAAGGGCTCAAAAATAAACGTATGTGTTTCATATTTCGATCACCGAAATGAGAG
TTCTTAATTGTCAATTGACAAACGCGTTAGCAATTTAGTTAGGGAGTCATCTCCCTTGATTGTGTTCTTTTCT
GTCAATTTTTCATAGACCTAATTTGCAAACTCAATCGGGGACTAAAATTTCCCACTGAAAATGTAAACATTTTAG
ATAACTGTGAAGATAGTTTATTTTTATTCTTGCCAATCTGGGAATATGCCTTTTTTGTGTTGTTGTTGTTTT
TTAAGTGCTGTATTAATAATACTTTCTGAAAGAAAAGGACACTTACCCCAAACTTCAATCTGAAATGTCTTACA

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FIGURE 5840B

TTAAGAATATCTTGAATGTTGTGTATATATTTTAAAAAGCACTTTGCAAAATAGTTTGTACATTTATTTCTAAT
TTATACATGATTTTTTGGTGTTAATATATTTAATGATTAATAACAGAATGTTTATTTAATGTGCTGTCCATTTTTA
TGTAATATTATGGGGAAAGTGATGCCAGCAGTTCCTTTTTCATTATTCTATCTTCTGTCATATGAATGTTGAGCAA
AGCTTAGGCCAACATGAATTGTTTGTGAAGTGTGGTTGATGGTGCTTTGTTTTTTTTCTGACTACTTCTATGGAAG
GCCAGTGAAGAAGCAAAGGAAGACATGAAAATTGACGCTCATTCTTCTTCCTATTGTTCCCTGACATCCAGCAAA
TTGTGAATTTGAAAAATGATGGCCAGTTTTTCAAGAGTGCTGACAAATTCATATTGGTATGCAAAAGCTCATCACC
CATTAAAGGTTTGTGTGTTGAATCAACAGTACTCAGCATATTAAAACAGTACATCAGAACTCATGCCAACAGTCTTT
ATGATGGGATTAAGGTGGACAAGATCTCCTAAGATCTGTGAATGGGATTAAGGTGGACAAGATCTCCTAAGATCT
GAAAAGAAACCTTAATACGCTCATATGGTTGGAGTGTTAAGTGAACCTCTGATTTTGTGAGGGTTTTTCTACGTG
TAGGCGTGAATAGGGGGCACCCCTTCAAACTGTACAAAGAAGACGACTGTTTTCCATTTCATTAAACATTTT
TAGCCACTTCATTCTATTTATTGAACAGGTCAAATTTGTCTTGTTATTTGTGAGTACAGTACATTTAAAAACA
TCCTTATCGGTTATTTTTTTTTTTCAGTCGGAGTTTGACGTATAAATTGTTTATGCTTTTGGTGTAACTCTTAATA
AACTGGTTCTTCAAAAATC

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FIGURE 5841

MSVAFASARPRGKGEVTQOTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSL
PAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGP
GYSHAGPASQGVPMQGGGTIGNYVSRTNINMQSNPVSMQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGS
MMGQRPMAPYRPSQQGSSQQYLQEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQ
HYYEGGNSQYSQQQAGYQQGAAQQQTYSSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGGQYGSYRAPQTA
PSAQQQRPYGYEQGQYGNYYQ

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FIGURE 5842

GGGGCCATGGCACCTGCAAGGTGTTTCTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTG
TCCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTCGGCCGT
GCGGACCTCGCCAAGCATCAGGAACCTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGGTACTTTGTG
GACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACAGTGAGCCCCGCAAG
GAGTTTGGAGGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAGAGTTGACCAGCAAGTCAAG
TCCCTGTCGTCGGTCTGTCTGCGGGTACCAGGGTTTTCAGTGGAGAAGATGGAGGGAGTAAAAACTGCTTCGGGCGC
AGTGGCGCCGTCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGAAGGAGGGAGGCAGAGTTGTGGCCGACCTG
TCTTGGCTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGACAGGAGGGAAAGGCAACCGCTTCTTCTGGCCAAC
AACAAACCGTGCCCCCTGTGACCTGTACCCCTGGACAGCCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACG
GTGGCCACGCCGAATGGTGGGATTCCCCAACGCCGGGAAGTCTCACTGCTCCGGGCCATTTCAAACGCCAGA
CCCGCGTGGCTTCTTACCCGTTCAACACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAA
ATAGCAGTGGCCGACATCCCCGGCATCATACGAGGCGCCACCAGAACAGGGGTCTGGGGTCCGCTTCTCTCAGG
CACATCGAGCGCTGCCGCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGAT
TTAAATATGAACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCACGCAATCGTCGCAAAACAAGATTGAC
CTCCCTGAAGCCCCAAGCCAATCTGTCCAGCTCCGGGATCACTTGGGACAGGAGGTATCGTGTCTGCGCGTTG
ACCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCTGGGC
CAGGGCCGCCAGCCGCTCAGGTGGTAGCCACGCCAGAGCGGGGTGCGCTCTGGGCCTCTGTCTGAGCAAACCTGG
GTGTGAATTCGGTGGTTTTGAATGCATAAAGTGCTTGTGGACACGGGGGAGTTGTGGTGTCTTGGGTCTCTGG
GCCCCGCTGTGGCCTGAGATGCCCTCATGTTGGGAAGCATTCGCTGCCCCCTACCCCGCCTGCCCTCCGTATT
TCTGCACTGTGACGCTGCACCGACTGATGAGCCAGTTGCTCATTGTGTCTGATTAAACCCCCTAATAAGGGGT
TGGGGTGCCCATAAACGGGGTGGCCCTGCCGCTGACTCAGGTCTCCGCCATGCACGCGTGGACTCTCGGATGAGCT
CAGCAGAACCGCACAGCCAGAGCCCCAGGTGAGAAGTGACAGACCAGGGTTCTCAGCACAGTGCCCGTCGTGCTTC
CATGGCTTGCTACGGAGAGAGACCTCTGGATCCACACTGGGGCTGCGTCTGGCCCGTTGTCCAGCAGCCCTGCGG
TACCGCAAGCCCAGGCACCAAGTGTCTCGGGGGGCTCACTGCTGCGCAAGGGGTGGGGCCGAGGATGCAAGTCCA
GGCAGAGCGGCGCAGGCAGCTGTGAGCTTTTCTCCATCAGCCGTCTGAGAAGAGCAGTGAGGCCAGCTGCTTCTT
GTCCTTCAGAACACTTCTCTGTGCTCAGTGGGAGCCAGGAAGCCTCAGGCTTCACGACTGAATGCACCCAATATC
CGACCTGGCTGCGTGTCTTCTGGCTGGGCTGCCGTGTGCACAGCAAGTTAACTAGAGGGGCTGTGGGCCATGGAAC
TGTCAGCGTTATTCTCAGAAGGCGGCGGTGGCATGGGCAGGGTATAGTGAGGAGTGGAAGGAGACGTGTGCCTGG
TAATATGGGGCGGAATTTCCACTCAGCTCCATTTGCTGGGGATTTAAAGAGAACCCTTGTGCTACGCCAGGCAGT
TACCGAGCCGAAGGGAGATGATGGGCCTTCGCCCCCTCAGTGGGATGGCAGCTGAGGGGGCCCTGCATTGACCGT
CGAGACTGCAGCAGCGCCTTCTCTGTCTGTGGTTTAAAGTCTTTGCAGTCAAGTACTGATGCATCCAAGCCAGGCC
CATGCCTGGTGTCTCCCTGACTGCAGAGGAGCCCCAGGGCAAGGACAGCTCAGCTGCTGGCAGCCTGCCTGGCCC
ATAGACATCCCCAAGTAGTCTCAGGCCTCTGACATGTCCCTGAGGGGGCCCTAAGAAAGAAAGTGAGGGGGACA
CTCCAGAGGCTGTCTGGGAGGATCATGTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGTGATTGCACCACTGC
ACTCCAGCCTGAGTGACAGAGCGAGACCTGTCTCAAAAAACAAACAAACAAACAAACAAACAGAACATTCTG
GGCACGCTGGCTCATGCCCTGTAGTCCCAGCACTTTGGGAGGCCGAGGCTGGTGGATCACAAAGTCAGGAGATTGA
GACCATCCTGGCTAACACAGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCAGGCGTGGTGGCGGTC
ACCTGTAGTCCAGCTACTCGGGAGGCTGAAGCAGGAGAATGGCGTGAACCTGGGAGGCGGAGCTTGCAGTGAGC
CGAGATCACACCACTGCACTCCAGCCTGAGCGACAGAGCAAGACTCCATCTC

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FIGURE 5843

MAPARCF SARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKRYFVDY
RRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSVLSRYQGFSGEDGGSKNCFGRSG
AVLYIRVPVGTILVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQPGQQRVLHLELKTVA
HAGMVGFNPAGKSSLLRAISNARPAVASYPFTTLKPHVGI VHYEGHLQI AVADIPGIIRGAHQNRGLGSAFLRHI
ERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKLSARPHAIVANKIDLPEAQANLSQLRDHLGQEVIVLSALTG
ENLEQLLLHLKVLYDAYAEELGQGRQPLRW

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FIGURE 5844

GCGAGCCCGGACGGCGCCTCTCGAACGAGTGTGGGCGCGAGGCAGGATGACGACCTCAGGCGCGCTCTTTCCAAG
CCTGGTGCCAGGCTCTCGGGGCGCCTCCAACAAGTACTTGGTGGAGTTTCGGGCGGGAAAGATGTCCCTGAAGGG
GACCACCGTGACTCCGGATAAGCGGAAAGGGCTGGTGTACATTAGCAGACGGACGACTCGCTTATTCACTTCTG
CTGGAAGGACAGGACGTCCGGGAACGTGGAAGACGACTTGATCATCTTCCCTGACGACTGTGAGTTCAAGCGGGT
GCCGCAGTGCCCCAGCGGGAGGGTCTACGTGCTGAAGTTCAAGGCAGGGTCCAAGCGGCTTTTCTTCTGGATGCA
GGAACCCAAGACAGACCAGGATGAGGAGCATTGCCGGAAGTCAACGAGTATCTGAACAACCCCCGATGCCTGG
GGCACTGGGGGCCAGCGGAACGAGCGGCCACGAACCTCTCTGCGCTAGGCGGTGAGGGTGGCCTGCAGAGCCTGCT
GGGAAACATGAGCCACAGCCAGCTCATGCAGCTCATCGGACCAGCCGGCCTCGGAGGACTGGGTGGGCTGGGGGC
CCTGACTGGACCTGGCCTGGCCAGCTTACTGGGGAGCAGTGGGCCTCCAGGGAGCAGCTCCTCCTCCAGCTCCCG
GAGCCAGTCGGCAGCGGTACCCCGTCATCCACCACCTCTTCCACCCGTGCCACCCAGCCCCCTTCTGCTCCAGC
AGCTGCCTCAGCAACTAGCCCGAGCCCCGCGCCAGTTCCGGGAATGGAGCCAGCACAGCAGCCAGCCGACCCA
GCCCATCCAGCTGAGCGACCTCCAGAGCATCCTGGCCACGATGAACGTACCAGCCGGGCCAGCAGGCGGCCAGCA
AGTGGACCTGGCCAGTGTGCTGACGCCGGAGATAATGGCTCCCATCCTCGCCAACGCGGATGTCCAGGAGCGCCT
GCTTCCCTACTTGCCATCTGGGGAGTCGCTGCCGCGAGACCGCGGATGAGATCCAGAATACCCTGACCTCGCCCCA
GTTCCAGCAGGCCCTGGGCATGTTAGCGCAGCCTTGGCCTCGGGGCAGCTGGGCCCCCTCATGTGCCAGTTCGG
TCTGCCTGCAGAGGCTGTGGAGGCCGCCAACAAGGGCGATGTGGAAGCGTTTGCCAAAGCCATGCAGAACAACGC
CAAGCCCGAGCAGAAAGAGGGCGACACGAAGGACAAGAAGGACGAAGAGGAGGACATGAGCCTGGACTGAGCCAC
GCGCCGTCTCCGAGGAACCTGGGCGCTTGCAGTGCGTTGCACACCCTCACCTCCCACCCACTGATTATTAATAAA
GTCTTTTCTTTTACCTGCAAAAAA

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FIGURE 5845

MTTSGALFPSLVPGSRGASNKYLVEFRAGKMSLKGTTVTPDKRKGLVYIQQTDDSLIHFCWKDRITSGNVEDDLII
FPDDCEFKRVPQCPSGRVYVLKFKAGSKRLFFWMQEPKTDQDEEHCRKVNEYLNPPMPGALGASGTSGHELSAL
GGEGGLQSL LGNMSHSQ LMQ LIGPAGLGGLGGLGALTGPGLASLLGSSGPPGSSSSSSSSRSQSAAVTPSSTTSST
RATPAPSAPAAASATSPSPAPSSGNGASTAASPTQPIQLSDLQSILATMNPAGPAGGQQVDLASVLTPEIMAPI
LANADVQERLLPYLP SGESLPQTAEIQNTLTSPQFQQALGMFSAALASGQLGPLMCQFGLPAEAVEAANKGDVE
AFAKAMQNNAKPEQKEGDTKDKKDEEDMSLD

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FIGURE 5846A

ATGGCGAAGCGGCTCTGCGCGGGGAGCGCACTGTGTGTTTCGCGGCCCCCGGGGCCCCGCGCCGCTGCTGCTGGTC
GGGCTGGCGCTGCTGGGCGCGGCGCGGGGCGGGGAGGAGGCGGGCGGGCGGCTTCAGCCTGCACCCGCCCTACTTC
AACCTGGCCGAGGGGCGCCGCATCGCCGCTCCGCGACCTGCGGAGAGGAGGCCCCGGCGCGCGGCTCCCCGCGC
CCCACCGAGGACCTTTACTGCAAGCTGGTAGGGGGCCCCGTGGCCGGCGGCGACCCCAACCAGACCATCCGGGGC
CAGTACTGTGACATCTGCACGGCTGCCAACAGCAACAAGGCACACCCCGCGAGCAATGCCATCGATGGCACGGAG
CGCTGGTGGCAGAGTCEACCGCTGTCCCGCGGCTGGAGTACAACGAGGTCAACGTACCCCTGGACCTGGGCCAG
GTCTTCCACGTGGCCTACGTCTCATCAAGTTTGCCAACCTACCCCGGCCGACCTCTGGGTGCTGGAGCGGTCC
ATGGACTTCGGCCGCACCTACCAGCCCTGGCAGTTCTTTGCCTCTCCAAGAGGGACTGTCTGGAGCGGTTCGGG
CCACAGACGCTGGAGCGCATCACACGGGACGACGCGGCCATCTGCACCACCGAGTACTCAGCATCGTGCCCTG
GAGAACGGAGAGATCGTGCTGCTCCCTGGTGAACGGACGTCCGGGCGCCATGAATTTCTCTACTCGCCGCTGCTA
CGTGAGTTTACCAAGGCCACCAACGTCCGCTGCGCTTCTGCGTACCAACACGCTGTGGGCCATCTCATGGGG
AAGGCGCTGCGGGACCCACGGTCAACCGCCGGTATTATTACAGCATCAAGGATATCAGCATCGGAGGCCGCTGT
GTCTGCCACGGCCACGCGGATGCCTGCGATGCCAAGACCCACGGACCCGTTCAAGGCTGCACTGACCTGCCAG
CACAACACCTGCGGGGGCACCTGCGACCGTGTGCCCCGGCTTCAATCAGCAGCCGTGGAAGCCTGCGACTGCC
AACAGTGCCAACGAGTGCCAGTCTGTAACTGCTACGGCCATGCCACCGACTGTACTACGACCCCTGAGGTGGAC
CGGCGCCGCGCCAGCCAGAGCCTGGATGGCACCTATCAGGGTGGGGGTGTCTGTATCGACTGCCAGCACCACACC
ACCGGCGTCAACTGTGAGCGCTGCGCTGCCCGGCTTCTACCGCTCTCCCAACCACCTCTCGACTCGCCCCACGTC
TGCCGCGCGCTGCAACTGCGAGTCCGACTTACCGATGGCACCTGCGAGGACCTGACGGGTGATGCTACTGCCGG
CCCAACTTCTCTGGGGAGCGGTGTGACGTGTGTGCCGAGGGCTTACGGGCTTCCCAAGCTGCTACCCGACGCCC
TCGTCTCTCAATGACACCAGGGAGCAGGTGCTGCCAGCCGGCCAGATTGTGAATTGTGACTGCAGCGCGGCAGGG
ACCCAGGGCAACGCCTGCCGGAAGGACCCAAGGGTGGGACGCTGTCTGTGCAAACCCAACCTTCCAAGGCACCCAT
TGTGAGCTCTGCGCGCCAGGGTTCTACGGCCCCGGCTGCCAGCCCTGCCAGTGTTCAGCCCTGGAGTGGCCGAT
GACCGCTGTGACCCCTGACACAGGCCAGTGCCAGGTGCCAGTGGGCTTCGAGGGGGCCACATGTGATCGCTGTGCC
CCCGGCTACTTTCACTTCCCTCTCTGCCAGTTGTGTGGCTGCAGCCCTGCAGGAACCTTGCCCGAGGGCTGCGAT
GAGGCCGGCCGCTGCCTATGCCAGCCTGAGTTTGTGTGGACCTCATTGTGACCGGTGCCGCCCTGGCTACCATGGT
TTCCCAACTGCCAAGCATGCACCTGCGACCCCTCGGGGAGCCCTGGACCAGCTCTGTGGGGCGGGAGGTTTGTGC
CGCTGCCGCCCCGGCTACACAGGCACTGCCTGCCAGGAATGCAGCCCCGGCTTTCACGGCTTCCCCAGCTGTGTC
CCCTGCCACTGCTCTGCTGAAGGCTCCCTGCACGCAGCCTGTGACCCCGGAGTGGGCAGTGCACTGCCGGCCC
CGTGTGACGGGGCTGCGGTGTGACACATGTGTGCCCGGTGCCATAACTTCCCTACTGCGAAGCTGGCTCTTGC
CACCCTGCCGGTCTGGCCCCAGTGGATCTGCCCTTCTGAGGCACAGGTTCCCTGTATGTGCCGGGCTCACGTG
GAGGGGCCGAGCTGTGACCGCTGCAAACCTGGGTTCTGGGGACTGAGCCCCAGCAACCCCCGAGGGCTGTACCCGC
TGCAGCTGCGACCTCAGGGGCACACTGGGTGGAGTTGCTGAGTGCCAGCCGGGCACCGGCCAGTGCTTCTGCAAG
CCCCAGTGTGCGGCCAGGCCTGCGCGTCTGCAAGGATGGCTTCTTTGGACTGGATCAGGCTGACTATTTTGGC
TGCCGAGCTGCCGGTGTGACATTGGCGGTGCACTGGGCCAGAGCTGTGAACCGAGGACGGGCGTCTGCCGGTGC
CGCCCCAACACCCAGGGCCCCACCTGCAGCGAGCCTGCGAGGGACCACTACCTCCCGACCTGCACCACCTGCGC
CTGGAGCTGGAGGAGGCTGCCACACCTGAGGGTCACGCCGTGCGCTTTGGCTTCAACCCCCCTCGAGTTCGAGAAC
TTCAGCTGGAGGGGCTACGCGCAGATGGCACCTGTCCAGCCAGGATCGTGGCCAGGCTGAACCTGACCTCCCT
GACCTTTTCTGGCTCGTCTTCCGATACGTCAACCGGGGGGCCATGAGTGTGAGCGGGCGGGTCTCTGTGCGAGAG
GAGGGCAGGTGCGCCACCTGCGCCAACTGCACAGCACAGAGTCAGCCCGTGGCCTTCCACCCAGCACGGAGCCT
GCCTTCATCACCGTGCCCCAGAGGGGCTTCGGAGAGCCCTTTGTGCTGAACCTGGCACCTGGGCCCTGCGTGTG
GAGGCCGAAGGGGTGCTCTGGACTACGTGTTCTGCTGCTAGCGCATACTACGAGGCGGCGCTCTGCACTG
CGGCTGAGTGAAGGCTGCACATACCGTCCCTCTGCCAGCAGTGTGGCGACAACCTGCTCTACACACACCTC
CCCCTGGATGGCTTCCCTCGGCCCGGGCTGGAGGCTGTGTGCGCAGGACAACAGCCTGCCCCGGCCCTGCG
CCCACGGAGCAGCTCAGCCCGTGCACCCGCCACTGATCACCTGCACGGGCAGTGATGTGGACGTCCAGCTTCAA
GTGGCAGTGCCACAGCCAGGCCGCTATGCCCTAGTGGTGGAGTACGCCAATGAGGATGCCCGCCAGGAGGTGGGC
GTGGCCGTGCAACCCACAGCGGGCCCCCAGCAGGGGCTGTCTCCCTGCACCCCTGCCTGTACAGCACCCCTG
TGCCGGGGCACTGCCCGGGATACCCAGGACCACCTGGCTGTCTTCCACCTGGACTCGGAGGCCAGCGTGAGGCTC
ACAGCCGAACAGGCACGCTTCTTCTGACGGGGTCACTCTGGTGCCCATGAGGAGTTACGCCCGGAGTTCTGTG

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FIGURE 5846B

GAGCCCCGGGTCAGCTGCATCAGCAGCCACGGCGCCTTTGGCCCCAACAGTGCCGCCTGTCTGCCCTCGCGCTTC
CCAAAGCCGCCCCAGCCCATCATCTCAGGGACTGCCAGGTGATCCCGCTGCCGCCCGGCCTCCCGCTGACCCAC
GCGCAGGATCTCACTCCAGCCATGTCCCAGCTGGACCCGACCTCGGCCCCACCGCTGTGGACCTGATGCA
GAGCCACCCCTGCTGCGTGAGCCCCAGGCCACCGTGGTCTTACCACCCATGTGCCACGCTGGGCCGCTATGCC
TTCTGCTGCACGGCTACCAGCCAGCCACCCACCTTCCCCGTGGAAGTCTCATCAACGCCGCCGCGTGTGG
CAGGGCCACGCCAACGCCAGCTTCTGTCCACATGGCTACGGCTGCCGCACCCTGGTGGTGTGTGAGGGCCAGGCC
CTGCTGGACGTGACCCACAGCGAGCTCACTGTGACCGTGCCTGTGCCAAGGGCCGGTGGCTCTGGCTGGATTAT
GTACTCGTGGTCCCTGAGAAGCTCTACAGCTTTGGCTACCTCCGGGAGGAGCCCTGGATAAATCCTATGACTTC
ATCAGCCACTGCGCAGCCAGGGCTACCACATCAGCCCCAGCAGCTCATCCCTGTTCTGCCGAAACGCTGCTGCT
TCCCTCTCCCTCTTCTATAACAACGGAGCCCGTCCATGTGGCTGCCACGAAGTAGGTGCTACAGGCCCCACGTGT
GAGCCCTTCGGGGGCCAGTGTCCCTGCCATGCCATGTGATTGGCCGTGACTGCTCCCGCTGTGCCACCGGATAC
TGGGGCTTCCCCAACTGCAGGCCCTGTGACTGCGGTGCCCGCCTCTGTGACGAGCTCAGGGCCAGTGCACTGCG
CCGCCACGCACCATCCCCGCCGACTGCCTGCTGTGCCAGCCCCAGACCTTTGGCTGCCACCCCTGGTTCGGCTGT
GAGGAGTGTAAGTGTCTCAGGGCCCGCATCCAGGAGCTCACAGACCTACCTGTGACACAGACAGCGGCCAGTGCG
AAGTGCAGACCCAAACGTGACTGGGCGCCGCTGTGATACCTGCTCTCCGGGCTTCCATGGCTACCCCCGCTGCCGC
CCCTGTGACTGTACAGAGGCGGGCACTGCGCCTGGCGTGTGTGACCCCTCACAGGGCAGTGCTACTGTAAGGAG
AACGTGCAGGGCCCCAAATGTGACAGTGCAGCCTTGGGACCTTCTCACTGGATGCTGCCAACCCCAAAGGTTGC
ACCCGCTGCTTCTGCTTTGGGGCCACGGAGCGCTGCCGGAGCTCGTCCTACACCCGCCAGGAGTTCTGTGGATATG
GAGGGATGGGTGCTGCTGAGCACTGACCGGCAGGTGGTGCCCCACGAGCGGCAGCCAGGGACGGAGATGCTCCGT
GCAGACCTGCGGCACGTGCCTGAGGCTGTGCCCGAGGCTTTCCCCGAGCTGTACTGGCAGGCCCCACCTCCTAC
CTGGGGGACCGGGTGTATCCTACGGTGGGACCTCCGTTATGAACTGCACTCAGAGACCCAGCGGGGAGATGTC
TTTGTCCCCATGGAGAGCAGGCCGGATGTGGTGTGTCAGGGCAACCAGATGAGCATCACATTCTGGAGCCGGCA
TACCCACGCCTGGCCACGTTACCGTGGGCAGCTGCAGCTGGTGGAGGGGAACCTCCGGCATACGGAGACGCGC
AACACTGTGTCCCGCAGGAGCTCATGATGGTGTGCGCAGCCTGGAGCAGCTGCAGATCCGTGCCCTCTTCTCA
CAGATCTCCTCGGCTGTCTTCTGCGCAGGGTGGCACTGGAGGTGGCCAGCCAGCAGGCCAGGGGGCCCTGGCC
AGCAATGTGGAGCTGTGCCTGTGCCCCGCCAGCTACCGGGGGGACTCATGCCAGGAATGTGCCCCCGGCTTCTAT
CGGGACGTCAAAGGTCTCTTCTGGGCCGATGTGTCCCTTGTGAGTGCATGGACACTCAGACCGCTGCCTCCCT
GGCTCTGGCGTCTGTGTGGAAGTGCAGCACAACACCGAAGGGGGCCACTGTGAGCGCTGCCAGGCTGGCTTCGTG
AGCAGCAGGGACGACCCAGCGCCCCCTGTGTGAGCTGCCCTGCCCTCTCAGTGCCCTTCAACAACCTTCGCC
GAGGGCTGTGTCTTGCAGGGCGGCCGCCACCCAGTGCCTCTGCAAACCTGGTTATGCAGGTGCCTCCTGCGAGCGG
TGTGCGCCCGGATTCTTTGGGAACCCACTGGTGTGAGGAGCTCCTGCCAGCCATGCGACTGCAGCGGCAACGGT
GACCCCAACTTGCTCTTCAGCGACTGCGACCCCTGACGGGCGCTGCCGTGGCTGCCTGCGCCACACCACTGGG
CCCCGCTGCGAGATCTGTGCCCCGGCTTCTACGGCAACGCCCTGCTGCCCGCAACTGCACCCGGTGCAGCTGT
ACCCCATGTGGGACAGAGGCTGCGACCCCCACAGCGGACAGTGCCTGTGCAAGGCGGGCGTGACTGGGCGGCGC
TGTGACCGCTGCCAGGAGGGACATTTTGGTTTCGATGGCTGCGGGGGCTGCCGCCGTGTGCTTGTGGACCGGCC
GCCGAGGGCTCCGAGTGCCACCCCCAGAGCGGACAGTGCCTGCGGACCCAGGGACCATGGGACCCCACTGCCGC
GAGTGTGCCCTTGCTACTGGGGGCTCCCTGAGCAGGGCTGCAGGCGCTGCCAGTGCCCTGGGGGCGCTGTGAC
CCTCACACGGGCGGCTGCAACTGCCCCCCGGGGCTCAGCGGGGAGCGCTGCGACACCTGCAGCCAGCAGCATCAG
GTGCTGTTCAGGCGGGCCTGTGGGCCACAGCATCCACTGTGAAGGTTGTGTGACCACTGTGTGGTCTGCTCC
TGGATGACCTGGAACGGGCCGGCGCCCTCCTCCCCGCCATTACAGAGCAACTGCGTGCCATCAATGCCAGCTCCA
TGGCTTGGGCGGCTGTGCACAGGCTGAACGCCTCCATCGCTGACCTGCAGAGCCAGCTCCGGAGCCCCCTGGGCC
CCCCCATGAGACGGCACAGCAGCTGGAGGTGTGGAGCAGCAGAGCACAAGCTCGGGCAGGACGCACGGCGGC
TAGGCGGCCAGGCCGTGGGGACCCGAGACCAGGCGAGCCAATTGCTGGCCGGCACCGAGGCCACACTGGGCCATG
CGAAGACGCTGTTGGCGGCCATCCGGGCTGTGGACCGCACCTGAGCGAGCTCATGTCCCAGACGGGCCACCTGG
GGCTGGCCAATGCCTCGGCTCCATCAGGTGAGCAGCTGCTCCGGACACTGGCCGAGGTGGAGCGGCTGCTCTGGG
AGATGCGGGCCCGGACCTGGGGGCCCGCAGGCAGCAGCTGAGGCTGAGTTGGCTGCAGCACAGAGATTGCTGG
CCCGGGTGCAGGAGCAGCTGAGCAGCTCTGGGAGGAGAACCAGGCACTGCCACACAAACCCGCGACCGGCTGG
CCCAGCACGAGGCCGGCCTCATGGACCTGCGAGAGGCTTTGAACGGGCAGTGACGCCACACGGGAGGCCAGG

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FIGURE 5846C

AGCTCAACAGCCGCAACCAGGAGCGCCTGGAGGAAGCCCTGCAAAGGAAGCAGGAGCTGTCCCGGGACAATGCCA
CCCTGCAGGCCACTCTGCATGCGGCTAGGGACACCCCTGGCCAGCGTCTTCAGATTGCTGCACAGCCTGGACCAGG
CTAAGGAGGAGCTGGAGCGCCTCGCCGCCAGCCTGGATGGGGCTCGGACCCCACTGCTGCAGAGGATGCAGACCT
TCTCCCCGGCGGGCAGCAAGCTGCGTCTAGTGGAGGGCCGCCAGGCCACGCACAGCAGCTGGGCCAGCTGGCAC
TCAATCTGTCCAGCATCATCTGGACGTCAACCAGGACCGCCTCACCCAGAGGGCCATCGAGGCCTCCAACGCCT
ACAGCCGCATCCTGCAGGCCGTGCAGGCTGCCGAGGATGCTGCTGGCCAGGCCCTGCAGCAGGCGGACCACACGT
GGGCGACGGTGGTGGCGGAGGGCCTGGTGGACCGAGGCCAGCAGCTCCTGGCCAACAGCACTGCACTAGAAGAGG
CCATGCTCCAGGAACAGCAGAGGCTGGGCCTTGTGTGGGCTGCCCTCCAGGGTGCCAGGACCCAGCTCCGAGATG
TCCGGGCCAAGAAGGACCAGCTGGAGGGCGACATCCAGGGCGGCGCAGGCCATGCTTGCCATGGACACAGACGAGA
CAAGCAAGAAGATCGCACATGCCAAGGCTGTGGCTGCTGAAGCCCAGGACACCGCCACCCGCTGTGCAGTCCCAGC
TGCAGGCCATGCAGGAGAATGTGGAGCGGTGGCAGGGCCAGTACGAGGGCCTGCGGGGCCAGGACCTGGGGCCAGG
CAGTGCTTGACGCAGGCCACTCAGTGTCCACCCTGGAGAAGACGCTGCCCCAGCTGCTGGCCAAGCTGAGCATCC
TGGAGAACCCTGGGGTGCAACGCCAGCCTGGCCCTGTCCGCCAGCATTGGCCGCGTGCGAGAGCTCATTGCC
AGGCCCCGGGGGGCTGCCAGTAAGGTCAAGGTGCCCATGAAGTTCAACGGGCGCTCAGGGGTGCAGCTGCGCACCC
CACGGGATCTTGCCGACCTTGCTGCCTACACTGCCCTCAAGTTCTACCTGCAGGGCCCCAGAGCCTGAGCCTGGGC
AGGGTACCGAGGATCGCTTTGTGATGTACATGGGCAGCCGCCAGGCCACTGGGGACTACATGGGTGTGTCTCTGC
GTGACAAGAAGGTGCACTGGGTGTATCAGCTGGGTGAGGCGGGCCCTGCAGTCCTAAGCATCGATGAGGACATTG
GGGAGCAGTTGCGAGCTGTGAGCCTGGACAGGACTCTCCAGTTTGGCCACATGTCCGTTCAGTGGAGAGACAGA
TGATCCAGGAAACCAAGGGTGACACGGTGGCCCCCTGGGGCAGAGGGGCTGCTCAACCTGCGGCCAGACGACTTCG
TCTTCTACGTGCGGGGGTACCCAGTACCTTCACGCCCCCTCCCTGCTTCGCTTCCCCGGCTACCGGGGGCTGCA
TCGAGATGGACACGCTGAATGAGGAGGTGGTCAGCCTCTACAACCTCGAGAGGACCTTCCAGCTGGACACGGCTG
TGGACAGGCCTTGTGCCCCGCTCCAAGTCGACCGGGGACCCGTGGCTCACGGACGGCTCCTACCTGGACGGCACCG
GCTTCGCCCCGATCAGCTTCGACAGTCAGATCAGCACCACCAAGCGCTTCGAGCAGGAGCTGCGGCTCGTGTCTT
ACAGCGGGGTGCTCTTCTTCTGAAGCAGCAGAGCCAGTTCTGTGCTTGGCCGTGCAAGAAGGCAGCCTCGTGC
TGTTGTATGACTTTGGGGCTGGCCTGAAAAAGGCCGTCCCACTGCAGCCCCACCGCCCCCTGACCTCGGCCAGCA
AGGCGATCCAGGTGTTCTGCTGGGGGGCAGCCGCAAGCGTGTGCTGGTGCGTGTGGAGCGGGCCACGGTGTACA
GCGTGGAGCAGGACAATGATCTGGAGCTGGCCGACGCCTACTACCTGGGGGGCGTGCCGCCCGACAGCTGCCCC
CGAGCCTGCGACGGCTCTTCCCCACCGGAGGCTCAGTCCGTGGCTGCGTCAAAGGCATCAAGGCCCTGGGCAAGT
ATGTGGACCTCAAGCGGCTGAACACGACAGGCGTGAGCGCCGGCTGCACCGCCGACCTGCTGGTGGGGCGCGCCA
TGACTTTCCATGGCCACGGCTTCTTCGCTGGCGTCTCGAACGTGGCACCGCTCACTGGCAACGTCTACTCCG
GCTTCGGCTTCCACAGCGCCCAGGACAGTGCCCTGCTCTACTACCGGGCGTCCCCGGATGGGCTATGCCAGGTGT
CCCTGCAGCAGGGCCGTGTGAGCCTACAGTCTCTGAGGACTGAAGTGAAGTCAAGCGGGCTTCGCCGATGGTG
CCCCCATACGTGCGCTTCTACAGCAATGCCACGGGAGTCTGGCTGTATGTCGATGACAGCTCCAGCAGATGA
AGCCCCACCGGGGACACCCCCGAGCTCCAGCCGCAGCCTGAGGGGCCCCGAGGCTCCTCCTGGGAGGCCTGC
CTGAGTCTGGCACCATTTACAACCTCAGTGGCTGCATCAGCAACGTCTTCGTGCAGCGGCTCCTGGGCCACAGC
GCGTATTTGATCTGCAGCAGAACCTGGGCAGCGTCAATGTGAGCACGGGCTGTGCACCCGCCCTGCAAGCCCAGA
CCCCGGGCCTGGGGCCTAGAGGACTGCAGGCCTCCCGCCGACGCCGTACCCCGCCCGCATCCTGCCTGCATGC
TGCCCCACACCTCAGGACCACCCGAGACTCCTACCAGTTTGGGGGTTCCTGTCCAGTACCTGGAGTTTGTGG
GCATCCTGGCCCCGACATAGGAACCTGGCCAGTCTCTCCATGCAGCTCCTCCCGCAAGCTCCCGAGGCCTCCTCC
TCTTCACTGCCCCGTCTGAGGCCCGGCGAGCCCTCCTGGCGCTCTTCTGAGCAATGGCCACTTCGTTGCACAGA
TGAAGGCCTCGGGACTCGGCTCCGCGCCAGAGCCGCCAGCGCTCCCGGCTGGCGCTGGCACAAGGTCTCCG
TGCGCTGGGAGAAGAACCGGATCCTGCTGGTGACGACGGGGCCCGGGCCTGGAGCCAGGAGGGGCGCACCGGC
AGCACAGGGGGCAGAGCACCCCCAGCCCCACACCTCTTTGTGGCGGCTCCCGGCCAGCAGCCACAGCTCCA
AACTTCCGGTGACCGTGGGGTTCAGCGGCTGTGTGAAGAGACTGAGGCTGCACGGGAGGCCCCCTGGGGGCCCCCA
CACGGATGGCAGGGGTACACCCCTGCATCTTGGGCCCCCTGGAGGCGGGCCTGTTCTTCCAGGCAGCGGGGGAG
TTATCACTTTAGACCTCCCAGGAGCTACACTGCCTGATGTGGGCTGGAACCTGGAGGTGCGGCCCCCTGGCAGTCA
CCGGACTGATCTTCACTTGGGCCAGGCCCCGACGCCCCCTACTTGAGTTGCAGGTGACCGAGAAGCAAGTCC
TGCTGCGGGCGGATGACGGAGCAGGGGAGTTCTCCAGTCAAGTACCGGCCCTCAGTGCTGTGTGATGGCCAGT

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FIGURE 5846D

GGCACCGGCTAGCGGTGATGAAAAGCGGGAATGTGCTCCGGCTGGAGGTGGACGCGCAGAGCAACCACACCGTGG
GCCCCTTGCTGGCGGCTGCAGCTGGTGCCCCAGCCCCCTCTGTACCTCGGGGGCCTGCCTGAGCCCATGGCCGTGC
AGCCCTGGCCCCCGCCTACTGCGGCTGCATGAGGAGGCTGGCGGTGAACCGGTCCCCGTCGCCATGACTCGCT
CTGTGGAGGTCCACGGGGCAGTGGGGGCCAGTGGCTGCCAGCCGCCTAGGACACAGCCAACCCGGCCCCCTGGT
CAGGCCCCCTGCAGCTGCCTCACACCGCCCCCTTGTGCTCGCCTCATAGGTGTCTATTGGACTCTAAGCTCTACGG
GTGACAGATCTTGTCTTGAAGATGGTTTAAGTTATAGCTTCTTAAACGAAAGAATAAAATACTGCAAAATGTTT
TTATATTTGGCCCTTCCACCCATTTTAAATTGTGAGAGATTGTACCAATCATCACTGGTTCCTCCTTAAAAAT
TAAAAAGTAACTTCTGTGT

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FIGURE 5847

CTTTCTCTCTCGCGCGGGTGTGGTGGCAGCAGGCGCAGCCCAGCCTCGAAATGCAGAACGACGCCGGCGAGTTC
GTGGACCTGTACGTGCCGCGGAAATGCTCCGCTAGCAATCGCATCATCGGTGCCAAGGACCACGCATCCATCCAG
ATGAACGTGGCCGAGGTTGACAAGGTCACAGGCAGGTTTAAATGGCCAGTTTAAACTTATGCTATCTGCGGGGCC
ATTCGTAGGATGGGTGAGTCAGATGATTCCATTCTCCGATTGGCCAAGGCCGATGGCATCGTCTCAAAGAACTTT
TGACTGGAGAGAATCACAGATGTGGAATATTTGTCATAAATAAATAATGAAAACCT

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FIGURE 5848

MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSI¹LR²LAKA³
DGIVSKNF

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FIGURE 5849

AGTGCGCCTGCGCGGAGCTCGTGGCCGCGCCTGCTCCCGCCGGGGGCTCCTTGCTCGGCCGGGCGCGGCC**ATGG**
GAGAGGCCGAGGTGGGCGGCGGGGGCGCCGCAGGCGACAAGGGCCCGGGGGAGGCGGCCACCAGCCGGCGGAGG
AGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAAGCCGTCGGTGTGA
ACCGACACTTCCACATGATTTGTATTGGGACAAGTTCAGCCAGAACATCGGGCGGCAGGTCCCATCCAAGGTCA
TCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTGAGATTCTTCCATTCCCGAATCCAG
AGAGGAACTTCGTCTTCCAGAAGAGATCATTAGGAGGTCCGAGAAGGAAAAGTGATGATAGAAGAGGAGATGA
AAGAGGAGATGAAGGAAGACGTGGACCCCCACAATGGGGCTGACGATGTTTTTTCATCTTCAGGGAGTTTGGGGA
AAGCATCAGAAAAATCCAGCAAAGACAAAGAGAAGAACTCCTCAGACTTGGGGTGCAAAGAAGGCGCAGACAAGC
GGAAGCGCAGCCGGGTACCGACAAAGTCCTGACCGCAAACAGCAACCCCTTCCAGTCCCAGTGCTGCCAAGCGGC
GCCGCACG**TAG**ACCCTCAGCCCTGGTGGCGGCAGAGAAGCGGGCGAGGCACGTGGTCTGCTGAGGGGGTTGGCTG
GGTCTGAGTGCCACCCCCCAGGCCACAGTGATACCATCCAGTGCCATGAGCCCACACTGCCCGCCCTCAGGCTC
TCAGGTGAACGTGGCCGTGAGCGGGGAAACGTGTGTGTCAGTTGGACCATGTGGGACCCCGATGGACCTGAAAGA
CCAGGATCGGTCCAGCTCAGATATTGAGGGCTCTGAAGCCTAGTTCTGTCTTCTCTGGAGCAGCTGTGGCTTCCC
CGTGGCTGCTTGGTGACATGGATTAGCGCTACGTGGGCTGCAGCATTGGGATCCAGGCTACCTAGAGGGGCATC
GGGCCAGGGAAAACCTCGGATTAGCAAGCAATAAAAAATATGACCTCACTCTTCTCAAAGGAGCCCCCTGGTCTTC
CCTGTGTGACTCAGTTCTTTCCATCTGTTTGTCCGCTGCAAGCCTCTTCTGCGCTGACTGTGACATCGGAACG
TGGCCTTCCTGTACCCCCCTCCGTGCCACGCACTGAAGGCCACCCCAACCTGGGAACTAAGAACTGGATA
TTTTGCCTCATTCACTTGTACTGTAACAATGTATATAATTTGGTTGGTATTTCACTATTTAATTTTAAAGAGCC
TATTTTACTAGTGTTTTATATGAACAAAGTACTGCAGAAGTTAAACCTGTGTTGTATTTTTTCTGAGATGTTTTG
CTTTAAGAGATACTTTTTGCTCAGTTTTTATATGCCAGATACAGAGAATTGTAGCGGTTATTTTTTGTATGATC
TAGTAACTTGCAAACAGACCAAATGGATGAGAGGCGGGGACCGTGACGTGTCGGCTGATGAGGAGGCGGCCGCC
CCAGTGCTGATGGAGATGCCACTTTCGTGTGACTGCGAACATTAAAGCACAAAAAATCC

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FIGURE 5850

MGEAEVGGGAAGDKGPGEAATSPAETVVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIGRQVPSK
VIWDHLSTMYDMQALHESEILPFPNPERNFVLPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGADDVFSSSGSL
GKASEKSSKDKEKNSSDLGCKEGADKRKRSRVTDKVLANSNPSSPSAAKRRRT

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FIGURE 5851

CCCCGCCGCCGCCGAGCATGGACGACCCCGACTGCGACTCCACCTGGGAGGAGGACGAGGAGGATGCGGAGGACGC
GGAGGACGAGGACTGCGAGGACGGCGAGGCCCGCGCGAGGGACGCGGACGCAGGGGACGAGGACGAGGAGTC
GGAGGAGCCGCGGGCGGGCGCGGCCAGCTCGTTCCAGTCCAGAATGACAGGGTCCAGAACTGGCGAGCCACGAG
GGACATGTGTAGGTATCGGCACAACCTATCCGGATCTGGTGGAAACGAGACTGCAATGGGGACACGCCAAACCTGAG
TTTCTACAGAAATGAGATCCGCTTCTGCCCCAACGGCTGTTTCATTGAGGACATTCTTCAGAACTGGACGGACAA
CTATGACCTCCTTGAGGACAATCACTCCTACATCCAGTGGCTGTTTCCTCTGCGAGAACCAGGAGTGAACCTGGCA
TGCCAAGCCCCCTCACGCTCAGGGAGGTGAGGGTGTAAAGCTCCCAGGAGATCCAGGAGCGGCTGTCCGGGC
CTACGAGCTCATGCTGGGCTTCTACGGGATCCGGCTGGAGGACCGAGGCACGGGCACGGTGGGCCGAGCACAGAA
CTACCAGAAGCGCTTCCAGAACCTGAACTGGCGCAGCCACAACAACCTCCGCATCACACGCATCCTCAAGTCGCT
GGGTGAGCTGGGCCTCGAGCACTTCCAGGCGCCGCTGGTCCGCTTCTTCTGGAGGAGACGCTGGTGCGGCGGGA
GCTGCCGGGGGTGCGGCAGAGTGCCCTGGACTACTTCAITGTTGCGCTGCGCTGCCGACACCAGCGCCGCCAGCT
GGTGCACTTCGCTGGGAGCACTTCCGGCCCCGCTGCAAGTTCGCTCTGGGGGCCCAAGACAAGCTGCGGAGGTT
CAAGCCCAGCTCTCTGCCCCATCCGCTCGAGGGCTCCAGGAAGGTGGAGGAGGAAGGAAGCCCCGGGGACCCCGA
CCACGAGGCCAGCACCCAGGGTCGGACCTGTGGGCCAGAGCATAGCAAGGGTGGGGGCAGGGTGGACGAGGGGCC
CCAGCCACGGAGCGTGGAGCCCCAGGATGCGGGACCCCTGGAGAGGAGCCAGGGGGATGAGGCAGGGGGCCACGG
GGAAGATAGGCCGAGCCCTTAAGCCCCAAAGAGAGCAAGAAGAGGAAGCTGGAGCTGAGCCGGCGGGAGCAGCC
GCCACAGAGCCAGGCCCTCAGAGTGCCTCAGAGGTGGAGAAGATCGCTCTGAATTGGAGGGGTGTGCCCTCAG
CCAGGGCAGCCTCAGGACGGGGACCCAGGAAGTGGCGGTCAGGACCTGGGGAGGCAGTGACCCCTGCCGCCA
ACCCCTGGGAGCCAGGGTGGCCGACAAGGTGAGGAAGCGGAGGAAGGTGGATGAGGGTGTGGGGACAGTGCTGC
GGTGGCCAGTGGTGGTGCCAGACCTTGGCCCTTGCCGGGTCCCTGCCCATCGGGGCACCCCAAGGCTGGACA
CAGTGAGAACGGGGTTGAGGAGGACACAGAAGGTGCAACGGGGGCCAAAGAAGGTACCCCTGGGAGCCCATCGGA
GACCCAGGCCCCAGCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCG
CCCAGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGC
AGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAGCCGGCAGGACCTACAAGGGATGAGCCAGC
CGAGAGCCCATCGGAGACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGA
GACCCAGGCCCCCGCCGGCAGGACCTGCAGGGGACGAGCCAGCCGAGAGCCCATCGGAGACCCAGGCCCCAG
CCGGCAGGACCTACAAGGGATGAGCCAGCCAAGGCGGGGAGGCAGCAGAGTTGCAGGACGCAGAGGTGGAGTC
TTCTGCCAAGTCTGGGAAGCCTTAAGGAAGGAGTGCCGCTCGGCGTCTTGGTCTCTGTCCCTGCTGCAGGGG
CTGGGGCCTCCGAGCTGCTGCGGGCTCCCTCAGGCTCTGCTTCGTGACCCGTGACCCATGACCCACAGTGCTG
GCCTCCTGTGGGGCCACTATAGCAGCCACCAGAAGCCGCGAGGCCCTCAGGGAAGCCCAAGGCCTGCAGAAGCCT
CCTGGCCTGGCTGTGTCTTCCCCACCCAGCTCTCCCTGCGCCCTGTCTTTGTAAATTGACCCCTCTGGAGTGG
GGGCGGGCGGGCAGGGCTGCTTTCTTAGTCTGATACCAAGCAAGGCCTTTCTGAATAAATTCAATTGACTTG

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FIGURE 5852

MDDPDCDSTWEEDEEDAEDAEDCEDGEEAAGARDADAGDEDEESEEPRAARPSSFQSRMTGSRNWRATRDMCRY
RHNYPDLVERDCNGDTPNLSFYRNEIRFLPNGCFIEDILQNWTDNYDLEDNHSYIQWLFFLREPGVNWHAHAKPLT
LREVEVFKSSQEIQERLVRAYELMLGFYGRLEDRTGTGTVGRAQNYQKRFQNLNWRSHNNLRITRILKSLGELGL
EHFQAPLVRFFLEETLVRRELPGVRQSALDYFMFAVRCRHQRRQLVHFAWEHFRPRCKFVWGPQDKLRRFKPSSL
PHPLEGSRKVEEEGSPGDPDHEASTQGRTCGPEHSKGGGRVDEGPQPRSVEPQDAGPLERSQGDEAGGHGEDRPE
PLSPKESKKRKLKLSRREQPPTEPGQSASEVEKIALNLEGCALSQGSRLTGTQEVGGQDPGEAVQPCROPLGAR
VADKVRKRRKVDEGAGDSAAVASGGAQTLALAGSPAPSGHPKAGHSENGVEEDTEGRTGPKEGTPGSPSETPGPS
PAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSAGPTRDEPAESPSE
TPGPRPAGPAGDEPAESPSETPGPRPAGPAGDEPAESPSETPGPSAGPTRDEPAKAGEAAELQDAEVESAKSG
KP

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FIGURE 5853

CCGACGCCGACGCTCAGACTCCGCTCAGCCATGGCCGGGCCGCGCGCGTGCGCCCGCTCCTGCTCCTGCTCCTG
CTCGGGGAGCTTCTGGCGGCCGCGGGGGCGCAGAGAGTGGGACTCCCCGGCCCCCGGGCCCCCAGGGCCGCCC
GGCAAGCCCGGCCAGGACGGCATTGACGGAGAAGCTGGTCTCCAGGTCTGCCTGGGCCCGGGACCAAAGGGG
GCCCCAGGAAAGCCGGGGAAACCAGGAGAGGCTGGGCTGCCGGGACTGCCGGGTGTGGATGGTCTGACTGGACGA
GATGGACCCCTGGACCCAAGGGTGGCCCTGGGGAACGGGGAAGTCTGGGACCCCGGGGCCCGCCGGGCTGGGG
GGCAAAGGCCTCCTGGACCCCGGAGAGGCAGGAGTGAGCGGCCCGCCAGGTGGGATCGGCCTCCGCGGCCCGC
CCGGGACCTCCTGGACTCCCGGCCCTCCTGGTCCCCAGGACCTCCCGACCCCTGGACACCCAGGAGTTCTC
CCTGAAGGCGCTACTGACCTTCAGTGCCCAAGTATCTGCCCGCCAGGTCCCCAGGGCCCCCTGGAATGCCAGGG
TTCAAGGGACCCACTGGCTACAAAGGCGAGCAGGGGGAAGTCGGCAAGGACGGCGAGAAGGGTGACCCTGGCCCC
CCTGGGCCCCGCGGGCCTCCCGGGCAGCGTGGGGCTGCAGGGCCCCCGGGGATTACGAGGACTGCCAGGGCCACTC
GGGCCCCCTGGGGACCGGGGTCCATTGGGTTCCGAGGGCCGCCCTGGGATCCAGGAGCGCCTGGGAAAGCGGGT
GACCGAGGCGAGAGGGGCCAGAAGGGTTCCGCGGCCCAAGGGTGACCTCGGCAGACCTGGTCCCAAGGGAACC
CCCGGAGTGGCCGGGCCAAGCGGAGAGCCGGGCATGCCGGGCAAGGACGGCCAGAATGGCGTGCCAGGACTCGAT
GGCCAGAAGGGAGAGGCTGGTTCGCAACGGTGCTCCGGGAGAGAAGGGCCCCAACGGGCTGCCGGGCCTCCTTGA
CGAGCGGGGTCCAAAGGCGAGAAGGGAGAACGGGGCAGAGCTGGGGAGCTGGGTGAGGCCGGCCCCCTCTGGAGAG
CCAGGCGTCCCTGGAGATGCTGGCATGCCTGGGGAGCGCGGTGAGGCTGGCCACCGGGGCTCAGCGGGGGCCCTC
GGCCCACAAGGCCCTCCCGGAGCCCTGGTGTCCGAGGCTTCCAGGGCCAGAAGGGCAGCATGGGAGACCCCGGC
CTTCCAGGCCCCCAGGGCCTCCGAGGTGACGTGGGCGACCGGGGTCCGGGAGGTGCCCGAGGCCCTAAGGGAGAC
CAGGGTATTGCAGGTTCCGACGGTCTTCTGGGGATAAAGGAGAACTGGGTCCCAGCGGCCTGGTCCGACCCAAA
GGAGAGTCTGGCAGTCGAGGGGAGCTGGGCCCCAAAGGCACCCAGGGTCCCAACGGCACAGCGGTGTTTACGGGT
GTCCCCGGGCCCCCGGTCTCTGGGCCTGCAGGGCGTCCCGGGTGTTCCTGGCATCACGGGGAAGCCGGGAGTT
CCGGGGAAGGAGGCCAGCGAGCAGCGCATCAGGGAGCTGTGTGGGGGGATGATCAGCGAACAATTGCACAGTTA
GCCGCGCACCTAAGGAAGCCTTTGGCACCCGGGTCCATTGGTTCGGCCCGGTCCAGCTGGCCCCCTGGGCCCCCA
GGACCCCGAGGCTCCATTGGTCACCCTGGCGCTCGAGGACCCCTGGATACCGCGGTCCCACTGGGGAGCTGGGA
GACCCCGGGCCAGAGGAAACCAGGGTGACAGAGGAGACAAAGGCGCGGCAGGAGCAGGGCTGGACGGGCCTGAA
GGAGACCAGGGGCCCAAGGACCCCAAGGCGTGCCCGGCACCAGCAAGGACGGCCAGGACGGTGCTCCCGGCAG
CCTGGGCCTCCCGGAGATCCTGGGCTTCCAGGTGCCATTGGGGCCAGGGGACACCGGGGATCTGCGACACCTCA
GCCTGCCAAGGAGCCGTGTTAGGAGGGGTCCGGGAGAAATCAGGCTCTCGAAGCTCATATAATTCAACGTGAGGA
AGCAAGTGACAAGGACGCCCCGAAGCACAGTGACGGTCATGAAGGAGCGGGGTGTGGCAGGCGGGTGACGTCCA
GGAGAGGGAGCGCCCTGGCTGCCCCCTCGGCCCGGACTGGACGCGCGGGCCTTGCCAGCGAGCACCTCATCGG
GCTGTGCGCTGACAGCATACCTCAAAAGGCCCTAGCTAATAAACCTGTAAGCCCAGCATTTGAGAGAAGGTAGGG
TGTGTATATATAAAAGGTTGTGTACAACTCCACGAGGTGAAAAATATTAGTAACCTGTTTACATAGCATTTGTG
TAAAGACTATGATCTCATCCCAATAAAATGATATATTAACCTTCAGATTAATGACTGGCTACAGAGTAACAAAA
AATAAAGAATTTAATGTACAGTAAATTCTCTCCCAT

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FIGURE 5854

MAGPRACAPLLLLLLGELLAAAGAQRVGLPGPPGPPGPPGKPGQDGDIDGEAGPPGLPGPPGPKGAPGKPGKPGE
AGLPGLPGVDGLTGRDGPFGPKGAPGERGSLGPPGPPGLGGKGLPGPPGEAGVSGPPGGIGLRGPPGPPGLPGLP
GPPGPPGPPGHFPGVLP EGATDLQCPSICPPGPPGPPGMPGFKGPTGYKGEQQGEVVKDGEKGDPPGPPGAGLPGSV
GLQGPRGLRGLPGPLGPPGDRGPIGFRGPPGIPGAPGKAGDRGERGPEGFRGPKGDLGRPGPKGTPGVAGPSGEP
GMPGKDGQNGVPGLDGQKGEAGRNGAPGEKGPNGLPGLPGRAGSKGEKGERGRAGELGEAGPSGEPGVPGDAGMP
GERGEAGHRGSAGALGPQGGPGAPGVRFQGGQKGSMDPGLPGPQGLRGDVGDRGPGGAAGPKGDQGIAGSDGLP
GDKGELGPSGLVGPKGESGSRGELGPKGTQGPNGTSGVQGVPGPPGPLGLQGVPGVPGITGKPGVPKGKEASEQRI
RELCCGMISEQIAQLAAHLRKPLAPGSI GRPGPAGPPGPPGPPGSI GHPGARGPPGYRGPTGELGDPGPRGNQGD
RGDKGAAGAGLDGPEGDQGPQGPQGVPGTSGDKGQDGAPGEPGPPGDPGLPGAIGAQTGPGICDTSACQGAVLGGV
GEKSGSRSS

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FIGURE 5855

TCTAGCCCCGCGCCATCTCGGTGGCCGTCCGCCCACTCCGCGGCGTTCCGGGAAATGGCTGCGAGACCCTAGAGG
CCTGCGGCCTGCGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAAATACGAAGCCTGTTA
CTCGTGAACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAG
GGTTTTTGGTTGTATTTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTTCAGTGTGAGCAGGTATGGACGACAAAG
GCGACCCGAGCAATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTCAGGAAAACATGGGGTTTTTC
GAAGGACCACTATCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGC
AGCAGCTGGGCCTGTCCCTGCGGCGCAGTGGGAGGCAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTCTTGACCA
TTGCGCGGCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCTTCCCCGCCA
CAGACGCCGAGACAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCA
CAGCTGTGAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTG
ACAGCGATGGCCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGC
CCCTGAAAGGGATCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGTCCCGCCGAGACTGTGGCTCCGAGG
CCAGTGACACTGTGGAGGGCGTCCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTG
GGAAAAGATGACAGAGAGAGTAAGTTGGAGGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGG
GCCGACCGAAGCCTGAAAGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTGCGCCAGCCTCACAACAACA
GGTTTATGATTTGCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGA
GGCTTTTGGAAAGGAATGGGGAAGACTATATCTGCCCAAACCTGCACCACTTCTGCAAGTGACAGGATGAGACTCATT
CAGAAACGGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAA
CAATAGAGCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGA
AGAAACTCAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACCG
TGGCGCAGCCCCGACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGAGCGACAATGAAGTTTCTAA
GCTCAGGTAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAAT
GCGGTGCTCAGGCAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAAAGAGACCACAGTGA
AGAAGGCAGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGT
GGGCGAGCGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAAAT
GTATGTATCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCTGTCCAG
GACTGGGAGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGGAAGCAGAGCCCATGT
CCAGGATGCCTCCTGTGCTGCCCTGTGTCCATCCCTAGTCTGTCTCAGGACTTCTGTCACTGTTTTCCAAAGCTGTAA
ACCTCACTGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATT
CGTATTCTCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCGGCACGCCACATCCACCCCTGTCTGCACATGA
GTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTT
CTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTGTCATCTGATTTTCAGGTGTACATTTATTTTTGACTGGG
CAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTGCAACTTCGAAG
GCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGACGCG
TGCCTTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCA
TATCCTGCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTGAAACCTCAGATTCTGTGGTG
CAATTTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTCAATTCAGTC

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FIGURE 5856

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMFVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLPKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGDVCGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAATMKFLSSGKEQKPKPKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETTVKKAVVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDP SRSFWIAIPWACPGLGVAALC

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FIGURE 5857

GGGAGCGGGAGGGCAGGCGCACCGGAGGCCGCCCTCAGCACCTCTCGCGACAGCAAGAGAGCGCGAGAGCGCGA
GCCGATGACCAATGAAGCGCCCCCGGAGGGGGCGGGGCGGACGGCCTCCCGGAAGCGCGGAACCTCAGCTTCCG
TACTTGCGCAGAACTCCCCTCGCGGCGACACGCACTACGGGTTGGCGCCAGAGTCAAAAGGCGTCGGCCCTCTG
GCAAGATGGCTGCTGCGGAGGCGTTGGAGCGCGGAAATCTGGAACCGGGATGGCGACGTCTACACTGAGTCGGAG
GCGAAGGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGA
ACAGTGGCTGACAACAGTGTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTTCGTCTGCCAGGGTTTTT
GTTGTATTTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTTCAGTGTGGAGCAGGTATGACGACAAAGGCGACCC
GAGCAATGAGGAGGCGACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTCGAAGGAC
CACTATCGCCAAGCGAGAGGGGCGAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCT
GGGCTGTCCCTGCGGCGCAGTGGGAGGCGAGCCCAAGCGCACTGAGCGCGTGGAGCAGTTTCCTGACCATTGCGCG
GCGCCGCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCACGTCTGCCCGGCCACAGACGC
CGAGACAGCCTCCGAGGGGCGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGT
GAAGGAACGACCAGCCTCTTCTGAAAAGGTGAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGA
TGGCTGACCTTGAAAGAGCTTCAGAATCGCCTTCGACAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAA
AGGGATCCAGAGTCGCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGA
CACTGTGGAGGGCGTCTGCCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCAGGCTGGGAAAGA
TGACAGAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACC
GAAGCCTGAATGTGAGGGTTACGACCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTAT
GATTTGCTGTGACCGCTGTGAAGAATGGTTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTT
GGAAAGGAATGGGGAAAGACTATATCTGCCCAAACCTGCACCATTTCTGCAAGTGCAGGATGAGACTCATTCAAAAAC
GGCAGATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCGATTGTACAAGTATAGGAACAATAGA
GCAGAAGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAAATCCAAGTGGCAAGAAGAACT
CAAGATCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAATGTATTGGCCCCGGTGCTGTACAGTGGCGCA
GCCCCACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGACAAATGAAGTTTCTAAGCTCAGG
TAAAGAACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGC
TCAGGCAGGTATTAATAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGC
AGTGGTGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAG
CGATCACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCACTGTTGTATAAATGTATGTA
TCACCTAGGGGTTGGCCTCCTGGACCCCTCCCGTTCTTTCTGGATAGCCATCCCTGGGCCGTGCCAGGACTGGG
AGTTGCAGCTTTGTGTAAAGCTGATCACAGACACCGGCTGCACCATCAGCGGAAGCAGAGCCCATGTCCAGGAT
GCCTCCTGCTGCCCTGTGTCCATCCCTAGTCTGTGAGGACTTCTGTCACTGTTTTCCAAAGCTGTAAACCTCAC
TGGTGAACGTTACCTTAATGATTGATTCTTTAATCTCTGTTTTCACTCTCAGGCTCTGGTAAGTATTCGTATTC
TCTTCATCCAGTCTGATTGCATAGCCACACTGCCCCGACGCCACATCCACCCCTGTCTGCACATGAGTTGTTT
TGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCACTTCTTTTTT
ATGTTGTGGGAATCTTTGCAAGTTAGTGTGCACTGATTTTCAGGTGTACATTTATTTTTGACTGGGCAGATAG
GGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTGAACTTCGAAGGCCACAC
ACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTACACCTAGAACACTGTCCTGACCGCAGGACGCGTGCCTTG
GACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTTGAATGTTTAGACTCTTAAGATCATATCCTG
CCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTTGAAACCTCAGATTCTGTGGTGCAATTTT
AATGTTTTCTTGTCTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5858

MDDKGDP SNEEAPKAIKPTSKEFRKTWGFRRTTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMPVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEFHGD CVGIS
EARGRL LERNGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPDSVYCSNDCILKHAATMKFLSSGKEQKPKPKKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPEKKETT VKKAVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCMYHLGVGLLDPSRSFWIAIPWACPGLGVAALC

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FIGURE 5859

GGAGCTTACTCCACGGGAACAGCCTCTAGATAATCTGAGTTGTTGAAAATACGAAGCCTGTTACTCGTGAACAGT
GGCTGACAAACAGTGTTGTTGTGAGCCTGGCTGTCTGCTTGGACCCAGAGGTTTCGTCTGCCAGGGTTTTTGTTG
TATTTAGGATTTTCAGGGAAAAGTGTCCAAGCTTTTCAGTGTGTTGGAGCAGGTATGGACGACAAAGGCGACCCGAGCA
ATGAGGAGGCACCTAAGGCCATCAAACCCACCAGCAAAGAGTTTCAGGAAAACATGGGGTTTTTCGAAGGACCACTA
TCGCCAAGCGAGAGGGGCGCAGGGGACGCGGAGGCTGACCCACTGGAGCCGCCACCCCCACAGCAGCAGCTGGGCC
TGTCCTTGCGGCGCAGTGGGAGGCAGCCCCAAGCGCACTGAGCGCGTGGAGCAGTTCCTGACCATTGCGCGGCGCC
GCGGCAGGAGGAGCATGCCTGTCTCCCTGGAGGATTCTGGTGAGCCCACGTCTGCCCGGCCACAGACGCCGAGA
CAGCCTCCGAGGGCAGCGTGGAAAGCGCTTCTGAGACCAGAAGCGGCCCCAGTCTGCTTCCACAGCTGTGAAGG
AACGACCAGCCTCTTCTGAAAAGGTGAAAAGGAGGGGATGACCACGATGACACCTCCGATAGTGACAGCGATGGCC
TGACCTTGAAAAGAGCTTCAGAAATCGCCTTCGCAGGAAGCGGGAACAGGAGCCCACTGAGAGGCCCTGAAAGGGA
TCCAGAGTCGCCTGCGGAAGAAGCGCCGGGAGGAGGGTCCCGCCGAGACTGTGGGCTCCGAGGCCAGTGACACTG
TGGAGGGCGTCTGCCAGTAAGCAGGAGCCCGAGAACGATCAGGGGGTTGTGTCCCAGGCTGGGAAAGATGACA
GAGAGAGTAAGTTGGAGGGAAAGGCGGCTCAGGACATCAAAGATGAGGAGCCTGGAGACTTGGGCCGACCGAAGC
CTGAATGTGAGGGTTACGACCCCCAACGCCCTGTATTGCATTTGCCGCCAGCCTCACAACAACAGGTTTATGATTT
GCTGTGACCGCTGTGAAGAATGGTTTCATGGCGATTGTGTGGGCATTTCTGAGGCTCGAGGGAGGCTTTTGAAAA
GGAATGGGGAAGACTATATCTGCCCAAAGTGCACCATTTCTGCAAGTGCAGGATGAGACTCATTGAGAAACGGCAG
ATCAGCAGGAAGCTAAATGGAGACCTGGAGATGCTGATGGCACCATTGTACAAGTATAGGAACAATAGAGCAGA
AGTCTAGCGAAGACCAAGGGATAAAGGGTAGAATTGAGAAAGCTGCAATCCAAGTGGCAAGAAGAAAACCTCAAGA
TCTTCCAGCCTGTGATAGAGGCGCCTGGTGCCTCAAAATGTATTGGCCCCGGGTGCTGTACGTGGCGCAGCCCCG
ACTCGGTGTACTGCAGTAATGACTGTATCCTCAAACACGCCGACGACAATGAAGTTTCTAAGCTCAGGTAAAG
AACAGAAGCCAAAGCCTAAAGAAAAGATGAAGATGAAGCCAGAGAAGCCCAGTCTTCCGAAATGCGGTGCTCAGG
CAGGTATTAAAATCTCTTCTGTGCACAAGAGACCAGCTCCAGAAAAAAGAGACCACAGTGAAGAAGGCAGTGG
TGGTCCCTGCGCGGAGTGAAGCACTCGGGAAGGAAGCAGCTTGTGAGAGCAGCACGCCGTCGTGGGCGAGCGATC
ACAATTACAATGCAGTAAAGCCAGAAAAGACTGCTGCTCCCTCGCCGTCAGTGTGTATAAAATGCTCTGGTAAGT
ATTCGTATTCTCTTCATCCCAGTCTGATTGCATAGCCACACTGCCCCGACGCCACATCCACCCCTGTCTGCACA
TGAGTTGTTCTGACAACAGCGCTGTATACGCTTCAGTTTTTCCACATTGTCCACGGCCAGCACATGAAAGCATCA
CTCTTTTTTATGTTGTGGGAATCTTTGCAAGTTAGTGTGCATCTGATTTTCAGGTGTACATTTATTTTGA
GGCAGATAGGGGATTTTTTTTTTCCATGTCCGATTACACGCTACACACCCACATGAACACATTCGAACCTTCG
AAGGCCACACACTCCTGCTTCATAGGCCCCACGGTAAGTGAGTTCACACCTAGAACACTGTCCTGACCGCAGGAC
GCGTGCCCTGGACTTGGTATTCTACATGTGACTGGCTTTCTTGCCCTCGTCTCTGAATGTTTAGACTCTTAAGA
TCATATCCTGCCCCAAATTTCAAATTAATGAAATGAAGATATTTCAAACAGATCTTGAAACCTCAGATTCTGTG
GTGCAATTTAATGTTTTCTTGTCTCAGTTTTCTGCTATAAACTATTTTCAATTCAGTC

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FIGURE 5860

MDDKGDPSNEEAPKAIKPTSKEFRKTWGFRRRTIAKREGAGDAEADPLEPPPPQQQLGLSLRRSGRQPKRTERVE
QFLTIARRRGRRSMFVSLEDSGEPTSCPATDAETASEGSVESASETRSGPQSASTAVKERPASSEKVKGGDDHDD
TSDSDSDGLTLKELQNRLRRKREQEPTERPLKGIQSRLRKKRREEGPAETVGSEASDTVEGVLP SKQEPENDQGV
VSQAGKDDRESKLEGKAAQDIKDEEPGDLGRPKPECEGYDPNALYCICRQPHNNRFMICCDRCEEWFHGD CVGIS
EARGRLLENGEDYICPNCTILQVQDETHSETADQQEAKWRPGDADGTDCTSIGTIEQKSSDQGIKGRIEKAAN
PSGKKKLKIFQPVIEAPGASKCIGPGCCHVAQPD SVYCSNDCILKHAAATMKFLSSGKEQKPKPKMKMKPEKP
SLPKCGAQAGIKISSVHKRPAPPEKKETTVKKAVVVVPARSEALGKEAACESSTPSWASDHNYNAVKPEKTAAPSPS
LLYKCSGKYSYSLHPSLIA

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GGAAGTCTGGTGGCGGCTGGTGGGGGACACGGGCGCATCCTCATTGTCAGTGCGGCGGCCCTACCTCGGCCCTGGCCCT
 GACCCCGCGGCCCTGCCCGCCCTCCCTCCAGCATC**ATAG**CCAGCCCAAGAACCCAGGAAGGTTCTTAAAGAAGT
 CAGGGTGCAGGATGAGAACAACGTTTGTGTTTGTAGTGTGGCGGCTTCAATCCTCAGTGGGTGAGTGTGACCTACGG
 CATCTGGATCTGCTTGGAGTGCTCGGGGAGACACCGCGGGCTTGGGGTTCACCTCAGCTTTGTGCGCTCTGTTAC
 TATGGACAAGTGGAAGGACATTGAGCTTGAGAAGATGAAAGCTGGTGGGAATGCTAAGTTCCGAGAGTTCCTGGA
 GTCTCAGGAGGATTACGATCCTTGCTGGTCTTGACAGGAGAAGTACAACAGCAGAGCCGCGGCCCTCTTTAGGGA
 TAAGTGGTCTGCTCTGGCCGAAGGCAGAGAGTGGTCTCTGGAGTCATCACCTGCCCAGAAGTGGACCCACCTCA
 GCCCAGGACGCTGCCGTCCATGGTGCACCGAGTCTCTGGCCAGCCGCAGAGTGTGACCGCCTCCTCGGACAAGGC
 TTTTGGAGACTGGCTGAATGATGACCTCGGCTCCTATCAAGGGGCCCAGGGGAATCGCTACGTGGGGTTTGGGAA
 CACGCCACCGCCTCAGAAGAAAGAAGATGACTTCCTCAACAACGCCATGTCTCCCTGTACTCGGGCTGGAGCAG
 CTTACCACCTGGAGCCAGCCGGTTTGCTCGGCAGCCAAGGAGGGCGCTACAAAGTTTGATCCCAAGCGAGTCA
 GAAGGCGTCCGAGCTGGGCCACAGCCTGAACGAGAACGTCTCAAGCCTGCGCAGGAGAAGGTGAAGGAGGGAAA
 GATTTTGTATGATGTCTCCAGTGGGGTCTCTCAGTTGGCGTCCAAGTCCAGGGAGTCGGTAGTAAGGGATGGCG
 GGACGTCACCACCTTTTTTTCGGGGAAAGCAGAGGGCCCTTGGACAGCCCTCGGAGGGCCACAGTTATCAGAA
 CAGCGTCTGGACCACTTCCAAAACAGCAACATAGACCAGAGCTTCTGGGAGACCTTTGGAAGTGTGAGCCAC
 CAAGACCCGCAAGTCCCCGAGCAGCGACAGCTGGACGTGCGCGGACACCTCCACCGAGAGGAGGAGCTCGGACAG
 CTGGGAGGTGTGGGGCTCGGCCTCCACCAACAGGAACAGCAACAGCGACGGCGGGGAGGGCGGGGAGGGCACCAA
 GAAGGCAGTGCCGCCGGCCGTGCCACTGATGATGGCTGGGACAACCAGAACTGG**TAG**GGCCCACTGCGCCCCCG
 TCCCCAGCGCCCCCGGGCGACTTCGTGTTTGCACCTCTGCCCTCGTCGTTCTCTCTCTTCCATTTGACCCAAGAA
 TCAGCAACTGCAGTGTGAGGACAGCGTCTCGGGAGGCAGGACCCTAGGGAGACCCGGGTGTGCGCCGCTGCGCG
 TGGGGAGTCTTCGGTGCGTGGGGGCGGCTTGCTGTCCAGCCTGTGTGGGGCCGTCCCGTCCCACACTCCCCTGG
 GCATTCTTGACTCAAGGCCGGGGCTCTGCGTGGCTTGCTGGGAGGTGGGTGCGACACAGAGGCCTGTGACTGC
 GTTCCAGCGGCCAGTTCACTACGCAGTATCTCTGGGGCCTGGGACCAGCCACGTGCCGAGCTGTGAGCGACGTGA
 GGTGTCCCTTCTCGTTGAGATATTTAACTTTGGTTTTGCTCTAGTTCTTTCTTTTGAAGAGAGTGACTGGAGTG
 GTAAAGATGGAATGCTGGAAATGATACTGGCGCTCACGCTGCCATCCGACCACCCTCGGCTCCCGAGTCCACGC
 CTGCTTGGGCCTGTGCTGTGACACCCGCGTGGTTCGTAACCTCTGTGGCTCCCCCTGCATCAGCACCGTCCCACC
 ACCAAGTTACCAGGTTACCAGACACGGCCTCCACAATAGCCACACCCACACCTGAGCTGTCTCAGTGCTGGA
 ACTTGACCATCCTGGAACACCCTGGAAGAAAAAGGAGCGCAGGGTGGGCCCTCGGCCCTGATGCAGGAGGGTGC
 ATAGCGGACGTGGCCAGGCAGGAGGGGCGGGTTAGGAGCTGAGCAGGGGATGCCTGTGCGTGGTGCCTGGGT
 TAGGGAAGCTCCAGCCCCAGGATGGGGCTGCCCTGCACACCGGTGCCCGCCACATGCCAACCCTCACCTCCCCGA
 GACTGGATGATGTGCTGCCACGTGTGACTCGTCTCCCTTGCTTGCCCTGTGTGACCCTCAGTCTTGGCCAGCCA
 TGCATGCGCCCGAAGCTCGTGCAGTTTGTACGTGAGGTGCTCTCCTCCCTGCCACCATGCTCATCACTCTGGCCT
 TGGCCATGCTCCCTGGTACCCCCACTTCCCGGTGCGCGTCTGCAGCACTCCTGGAGCAGCCTGGGGCCTTCAGCC
 CTTGTGCTCGTCCCACCCTAGGGACTCAGTCACTTGACAGAACAGGATGGGACCGAGATTTACGCGAGCCCTCCTG
 GCGCCCGGTCTCTCCCTGTGGGCACACGCCCTCTTGGTAGCTGGTGTGGAGGGCCGGTGTCTTGGCTGCCACGGA
 GGGATTTGATCACCGAAGCAGCCACCTGCTGTAGTTGGACCTGAGGTGAGAGGCGGGGCATCAGAGGCTCAAGGT
 GCTGAGAAGCCACCGGGAAGCAGCCAGCACAAAGGGCCAGGAAGCCAGCCCCCGAGAGCTGAGCGTGGGGGTCT
 TTTAGTGTCTTTCTCCAAGCTGAGACGTGGGCGGCCGCGTGGTATCTCCCGAGGGCTGCTTGGACCTGGTGGG
 CTGAGTGTCTCCGAGGAGGGTGGACTCCACCTTGGACAGTGGGATGTGGTGTTCACATGTGCCTGTTTCCACGC
 CAGCACCTTGACTTGGCAGGATGGAGCCAAAGTCTGTCCCCGCCAGGAGGGTGCCTTCTCGGGGTAGGGGGA
 CGGCCCACTCTGCCCCAGGGAGTCCCTTTTGTAGGGAAGTGAGTCAGCAGCGTGGAGGTGTCTGGGCCACCTTC
 AGAAGGTGGATGTGGTGGCCGAGACCCCGTCCACGGAGGGTGATGGCCTTTCCCTTCTGCAGGTGCGGCAGGTG
 GGCTGGGACCGGTGCTGGGGCCTCTCCTTGCTGTGTGAGGGGCCAGGTGGAAGGCGCGGACCTGACAGCATT
 CCAATAAAGCATACGGGAACATG

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FIGURE 5862

MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKM
KAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQPRTLPSMVHRVS
GQPQSVTASSDKAFEDWLNDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAA
KEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQ LASKVQGVGSKGWRDVTTFSGKAEG
PLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRN
SNSDGGEGEGETKKAVPPAVPTDDGWDNQNW

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FIGURE 5863A

CACCAAGCCAGGATCCGCGCACTCCTGGTGGGTCAGAGTGGAGAGAGACCGGCCCCAGTTCCGCTGCCTGCCCC
CCGTGCCTGCTGACATGGTCTTCTGGTGGACGGGTCTGGAGCATTGGCCACAGTCACTTCCAGCAGGTCAAGG
ACTTCTGGCCAGTGTCTATCGCACCCCTTTGAAATCGGGCCGGATAAGGTCCAAGTAGGCCTGACTCAGTACAGCG
GGGATGCTCAGACTGAGTGGGACCTGAATCCCTCAGCACCAAGGAACAGGTGCTGGCAGCTGTGCGCCGCTCC
GCTACAAGGGGGGGAACACGTTACAGGCCCTTGCCCTGACCCACGTGCTGGGGCAGAACCTGCAGCCGGCGGCTG
GCCTCCGTCCAGAGGCAGCCAAGGTGGTGATTCTGGTGACGGACGGCAAGTCCCAGGACGATGTGCACACTGCTG
CCCGTGTCTCAAGGACCTGGGCGTGAACGTCTTCGTGTGGGTGTGAAGAACGCCGATGAGGCTGAGCTGAGGC
TCCTGGCGTCCCCGCCGAGGGACATACCGTCCACAGCGTGCTGGACTTCCTGCAGCTCGGCGCGCTGGCTGGCC
TGCTCAGCCGTCTCATCTGCCAGAGGCTCCAGGGTGGAGCCCCGCGGCAGGGCCCCAGCAGCGGCTCCAGCCCTGG
ACACCCTCCCTGCCCCACCAGCCTGGTCTGAGCCAGGTGACCTCCTCCAGCATCCGCCTGTCTGGACTCCAG
CCCCCGGCGACCCCTCAAGTATCTGATCGTTGGCGAGCCTCTAGAGGTGGCACCCTCAGGGAGGTGGTGGTGG
AGGGACCCGCGCCTCCACGGAGCTGCACAACCTGGCCTCCCGCACAGAGTACCTGGTCTCCGTGTTCCCCATCT
ATGAGGGCGGGGTTGGCGAAGGCCTGCGGGCCTGGTGACCACAGCACCTCTGCCTCCGCCCCGGGCGCTGACCC
TGGCCGCAGTGACGCCCAGAACCCTCCACCTCACTGGCAGCCCTCGGCCGGGGCCACCCACTACCTGGTGCAT
GTTCTCCTGCTTCCCCCAAGGGTGAAGAGGAGGAGCGAGAGGTGCAGGTGCGGCGGCCCCGAGGTGCTGCTGGATG
GCCTGGAACCTGGCAGGGACTATGAGGTCTCGGTGCAGAGCCTGCGAGGCCCTGAGGGCAGCGAGGCCCGGGGCA
TCCGTGCCAGGACCCCCACCCTGGCCCCCGGAGACACCTGGGCTTCTCAGACGTGAGCCACGACGCGGCACGAG
TGTTCTGGGAGGGTGGCCGAGGCCCTGTGCGCTGGTTCAGGGTCACTATGTGTCCAGCGAGGGTGGACACTCGG
GGCAGACAGAGGCTCCTGGGAACGCCACCTCGGCCACGCTGGGGCCTCTCTCTTCTCCACCACCTACACTGTCC
GTGTCACTGCCTCTACCCTGGGGTGGCTCCTCTACGCTGACTGGCCGGGTGACCACCAAGAAAGCTCCCAGCC
CAAGCCAGCTGTCCATGACGGAGCTGCCAGGGGATGCAGTCCAGCTGGCGTGGGTGGCCGACGCCCGCTCTGGCG
TGCTTGCTTACCAGATCACGTGGACGCCCTGGGAGAGGGGAAGGCTCACGAGATCTCTGTCCCAGGGAACCTCG
GCAGGGCGCTCTGCCTGGCCTAGGGAGGCACACAGAGTACGACGTACCATCTTGGCCTACTACAGGGACGGGG
CCCGCAGTGACCCTGTGTCCCTCCGCTATACCCCTCCACGGTGAGCAGGAGCCACCCTCCAACCTGGCCCTGG
CCTCGGAGACCCCGACAGCCTGCAGGTGAGTGGACGCCCCCGCTTGGCCGCGTGTCTCCATTACTGGCTCACCT
ACGCCCCCGCCTCTGGCTTGGGACCCGAGAAATCCGTCTCTGTGCCAGGAGCCAGGAGCCACGTGACACTGCCCG
ACCTGCAGGCAGCCACGAAGTACAGGGTCTGGTCTCAGCTATCTATGCAGCAGGCAGGAGTGAGGCTGTGTCTG
CCAGGGGCCAGACAGCCTGCCAGCCCTCCGCCCTGACGGCTCCCTCCCAGGGTTTGACCTGATGGTGGCCTTCA
GCCTGGTGGAAAAGGCTTATGCGTCCATCCGGGGCGTGGCCATGGAGCCCTCTGCCTTCGGTGGGACCCGACCT
TCACGCTCTTCAAGGACGCCAGCTGACAAGACGGGTGAGTACGTCTACCCAGCCCCCTACCTCCAGAGCACA
CCATCGTCTTCTTGTGCGCTACTTCCCAGACACCCCGTGAGGCCTTCGCGCTGTGGCAGATGACAGCCGAGG
ACTTCCAGCCCCCTCTTGGGTTCTGCTGGATGCCGGGAAGAAGTCCCTGACCTACTTCCACCGTGACCCAGGG
CTGCCTTGACAGGAGGCCACCTTCGACCCGAGGAAGTGAGGAAGATTTCTTCGGGAGCTTCCACAAGGTGCACG
TGGCTGTGGGCCGCTCCAAGGTCAGGCTCTATGTGGACTGCCGGAAGGTGGCTGAGCGGCCCTTGGGGAGATGG
GCAGCCACCCGCTGCGGGCTTCGTACGCTGGGGAGGCTGGCCAAGGCCAGGGGCCCGGAGCAGTTTCGGCCG
CGTTTCAGCTCCAGATGCTGCAGATCGTGTGCAGTGACACCTGGGCCGATGAGGACCGGTGCTGTGAGCTCCCTG
CCTCGAGGGATGGAGAGACCTGCCCCGCTTCGTGTCTGCCTGTTCTGTTCTCAGAGACCCCTGGGCCCCCAG
GACCTCAAGGACCCCAAGGCTCCCTGGGAGGAATGGCACCCCAAGGAGAGCAGGGCTTCCCAGGGCCCAGGGGTC
CACCAGGGGTCAAAGGAGAGAAGGGAGACCATGGGCTTCCAGGCTTGACAGGGCCACCCGGCCACCAGGGCATCC
CCGGGAGAGTTGGCCTCCAGGGACCAAGGGAATGAGAGGCCTGGAGGGAACGCTGGCCTGCCTGGACCCCTGG
CCCCAGGGGGTTCCAGGGCATGGCAGGGGCCAGGGGCACTAGTGGAGAGCAGGACCTCCAGGGACCGTGGGGCC
CACAGGACTGCCAGGGGCCAAAGGGGAACGAGGAGAGAAGGGCGAGCCGAGTCCCTTGCCACCCTCTACCAGCT
TGTGAGCCAGGCTGTGAGTCTGCCATTACAGACACCGTGTCAAAGTTGACTCCTTCCACGAGAACACCAGGCC
CCCCATGCCATCTTGGAGCAGAAGCTGGAGCCGGCACTGAGCCCTGGGGTCCCCTGGCACCCGAGCAAGGC
CCTGGTTCTTGGAGAATGGGGGCTGGTGGCCGCCACCTTGAGGGCAGAGGGGAGCCTGGAGCTGTTGGTCAGAT
GGGCAGCCCTGGGCAGCAGGGGGCTAGCACCCAGGGCCTTGAGGAGTGACAGGACATTTCTGCACTGCCCGAG
GAACGCTGAGCCTTCTCCCTGGGTTTGTCTGGACACCGAGAGCGACCACATCCTGGAGAAGCCAGGAGAAAAGC
TCAGGAAGAGCCTGCAGGTGGAAGGAGAGGGAAGCAGCGGCCCTCGGCCAAGGCCACCCCATACTCTTGGCTCTG

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FIGURE 5863B

TAGCATTTCGAAGTTCAGATAAACCCCTGAGTGCTCACCCAGCCAAGCGAGGCGGGAGTCATTTCTGGGAGAGT
GTCCCCACCCCTGGCTCTGTGCACCCACCTTGAGGCCCTGCAGCTTCAGCCGAGTGGGGAAGGGGAGGGGCTG
GGCTGATGGCGAATCGGGTTCAGGAGGGCAGCAGTGCCCTGTGGCCGTCTCAGTAGCTCTAAAACAGGCTCAACA
ACATGCCCGCCCTTTCTCTGGGCCTCATCTAAGCCTGGCCAGGGCCCTGTGGGCCCCGCTCTCTCTGCGCCTC
ACGCAGGCAACAGATGGTTCCACTGCTGGCCCCACAGTCACCTGCACGATGGCTCCTCCCTCAGAACAGCACTCC
CACCCCGGCCCCAGCACCTTCACATCTGGGCACAGGCAGGTCCCTGCCTGCCTCATCGTCCCTCTGTCCCCAGC
CCAAGAAGGAGTTCAGATCCTGTGTGTGAATGGCCACCCCTCACCCACCCAGCCCTGTGCTGAGTTCCTTGTGCA
GGGACATTGCTTTGAGACTTGGCACCATCAGCCCCCTGGTCTTAGGGTCTCAGAGCAAGGTCATCCCTCAGCAGG
CTTCTGGCCTGTGCGCTCCTCAGCACCTCTGCCCAGGTCTCTCCCAACCATCAGACGCTGTGTGAGCCTGGAC
TTCTGCTTATCCCACTGTGGCCCAAACAGCATGGGGGCAAGCTCAGAACACACACCTGGGCTTCTGGGCCTT
GTGGCCCGTGGGGGTGATGTGGGAATTCTACTTCTTTTCCAAACAAATATTAGTAAGTAGTCCACTGTTACCA
CTTAGGCAGCTAAGCAAGAAAGGTGCCAGAAATGAAGAGGGAAGCCATATCATTGAGGAGAGAATGAAAAGTATT
AAAAAGGAACAAAGAGAGACCCCTTGATATTGACAGAAGGAAAACCCACCAAGATCACCAGTGCAGCATGCGTGC
ACCAAAGCATACCCCAAAGAGGTGAGCGCAAAACAGCTTCAGGGCAAACACTTCATCTATGATTCAACTGTTCCA
GGAACTGACCAGACCTGGAGACCAAATAGAGAGTTCATAGGCAGGGTCAGCAGGATGGGAGAGAGCGCCTGCACCC
ACAGGAGCCACAGCCCTGACTGAGGCCAGGAAGCAGCCCCAAATGCCAGCTCCCACTGCAGCATGAGAACAGAAA
CAGACCACTGAAAATTCCCAAAGTCTGTGGACAAATCAGACGTCGAAGAAGTCACGTGGCATCGAGACAGATTTT
GCACTGAGGGACAAGGAGAGCATGTGGCCAAAGTAGGTGCAGGTAAAGCAGCATCTGGGGCAGAGTTATAGCCTT
CAGTGCAGGTATCAGACACAGTTGTTGAGAGCAGCAGCCCAAGCCAGCCCTCCGTCTGCAGGGAGGACACCTA
GGTCACTTGCTTCTGTTGGGGAGCTGAGTTGCTTCAGATTGTGTGACCAGCAAAACAGCTTGTTGCTCTCACT
TGGTTTCTCCAGGGCGGGGAATTACATGTCCCCAGCTGAAGTGAAGAAGGCTCTTTGAGCAGTGGAGTGAGCAGGC
TTTGTCTATGAGGCAGGAGTGGGGCTAGAATCAAGCCCAGAGCCCACAGGGCATCCAGAGCCTTCCAAAGGAGCCC
CTCTCCTGGGGCTCTCCAATTGATGAAGGGACTGGGCACTGGGTGGCTGAGACCACATTGGCAGCCAGGAGGAG
GCAGCCTGGCCGGGGGGAACAGGGTGGCTCTAATCCCCACCACCCCTCAGCTGCCCTACCCCGCCACGCTGG
TGTGACACCAGTGATGCTCAGCCTCAAAAGGGGAGTCCGGCTGTCTTCGGGAACTGACTTTATGCTGGAGGCCA
ATTAAAAATGGCACAGCAAAGGCAGCGGCCAGCTGGTGCCAGGCAGCTTAGGGACTGGTCCCTGAGGCCCCACCC
GCCCCAGCCTGTGCACTGGAGCTGAGTACGAATCAAAGGTGAGGATGGCAAGGGAGCTGAGAGCAGCCTCCGGAT
GCACCAAACCGCCTGGCTCCTGTTTGAGGAAGGCAGCCTCCCGAGACCCAGCCGACCTGCACGTCTCCCATC
AGCCCCGACTCCACCGCATCCCTCTGGGTCTTTTAGGAGCCCCCAGGGACTGAGCCGGGGCTCACGCTCCTGGC
CAGAGCGCTGGGTTTCTGGCAATGCCTCCCTCTGCTTTACGGCCACAGCTCTCCCTCCAGAGGCCCTCTG
TAGTGGGCTCGGTCCCTCTCCACCCCAAGAGGCAGCACAGCTTCAGCCCTACGCAGTGTGGGGGCTCCGGGAG
GAAATGCAGGGAGGTGCTTGGTCTTGGCCAGAGCTCATGGCCTTAGGTGCTGCCCCCAGTCACCCCGTGCCCA
TGCAGCCGGGGATGTTAGCTCAGGCCAGCCACCGAGGTGGTGTGACGCAAGGCTGATCTGACGCTCAGCTCAGG
CCGCTGGGGTCATGGGGGTGTGGGAAGGTATGGAATCACGGGGCTCACGCTGGGGTCACAGGGTGGTGTGGCT
GTGTGGACTGTAAGGGGCGTGACCCATGCGTATCTGACCTGCCCTCCCTAGGTCTGCAGGCAGTGCCGAGTGGC
TCTGCCTGAGGCCCAAGAGCGACCTTGGAAGCTCCAGGCCTTCACAGCCCTCTGAGAGCCACCTGCAAGGTGG
GGAGCTGGGAAGAACGGCTCAGTGATGAGCTCAGAGGGAGGGGTGGGCACAGCGCCAGGAAGGCGGGTGCCTGC
AGGCCTGGGAGGAATGTGTAGCAGGAGGCAGGGGTGCTGTGCCCGCAGGACCAGCAGGTGAGGCGTGTCCACCC
ACAGAGGATGGCTCTGGCCAGGCAGTGTGAGAAATGGAAGCTGAGGAAACCAACCCAGCTGTAGAGGAGCCT
GCCCCGATGCCATCTGCACCTGGGGGGCGACGTATGGCTGCCAGCCTCTTCATCTACCAAGGACAGGGCAGTGG
GGAGGGAGAGACTGGGACACGTGGACTCACACAGGGCAGATGGTGGGGGAAGCCAGTGTCTGTAGATTAGTGC
ATTTCTTGGGGAAGGGCGTGAACATTTGGACTTGAGCCCCAGCACAGAGACGATGTCATAATACAGCCCCCAT
CGTGATCTGATGGTAAGTACAGAATCTTTGCCAGTGGAGAAACACTCTCTCTCATGTGTGGAATATCCACAC
ACTAACCATGAAGTGGGCCATAAGAAACCTTACATTCCAAAGGATCCTGCTGTTCAAGTCACTCACTCACTGA
TGAAACTGGAAAAACAACCAATGATAACAAGCTAAAGAATGCCTTAGAAGCTAAAAGACACACCCATGACTCCA
CAGTAATTCATGGGTTAAAGAGAAAAAAGGAAACGTGAAGATACTTGTAAACAAATAATGATGGATGCAGCGCA
CGTCAGAAATCTCTGTGCTGCAGCTGCAGTGGTACCTAGAGGGCAATTTATAGCTGTAAATACAGTGCTTTGTTTT
GTTTTCTTGTTTTTTGAGACAAGGTCTTGCTCTGTACCCAGGCTGGAGTACAGTGGCATGATCTCGGCTCAATG

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FIGURE 5863C

CAACCTCTGTGCCACCCCTGGGCTCAAGTGGTCCTCCTGCTCCGGTCTTCTGAGTAGCAGGAACCACAGGCGTGCG
CCACCACGCTTGGCTAATGTTTTTGTATTTTTTAAATAGAGACAGGGTGTTGCCGTGTTACCCAGGCTGGTCT
TGAACCTCTGAGCTCAAACGATCCACCCCTCCTTGGCCTCCCAAAGTGGTGGGATTACAGGTGTGAGTCACCTCAC
CGGCCCTTAAACACAGTTTTTAGGGAAGATTCCAACCTCAAACAATTTTAAATAGTAGAAAATAAACCTGAAGCA
GTGTG

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FIGURE 5864

MVAFSLVEKAYASIRGVAMEPSAFGGTPTFTLTKDAQLTRRVSDVYPAPLPPEHTIVFLVRLLPETPREAFALWQ
MTAEDFQPLLGVLLDAGKKSITYFHRDPRAALQEATFDPQEVKIFFGSFHKVHVAVGRSKVRLYVDCRKVAERP
LGEMGSPPAAGFVTLGRLAKARGPRSSSAFQLQMLQIVCSDTWADEDRCCelpASRDGETCPAFVSACSCSSET
PGPPGPQGPPGPPGVKGEKGDHGLPGLQGHPGHQGIPGRVGLQGPKGMRGLEGTAGLPGLAPGGSRAWQGP GAL
VESÉDLQGPWGPQDCQGPKGNEERRASRSPLPPSTSL

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FIGURE 5865

GGCACGAGGCTCTGTCGTGGCGCGGCTTCCC GCGGTCTTCTCTGCAAATGGGCTCCGTGGCCTAGCGCCCCGTC
CCCGCCACCCGTGATCGTGCGCCGAGGCCCGCGAGGGGTGCGCGCCAGATCCCACCAGCCAGCAAGCTAAAGCA
TGGCGGCCATCCCCCTCCAGCGGCTCGCTCGTGGCCACCCACGACTACTACCGGCGCCGCCTGGGTTCACCTTCCA
GCAACAGCTCCTGCAGCAGTACCGAGTGCCCCGGGGAAGCCATTCCCCACCCCCCAGGTCTCCCCAAGGCTGACC
CGGGTCATTGGTGGGCCAGCTTCTTTTTTCGGGAAGTCCACCCTCCCGTTCATGGCCACGGTGTGGAGTCCGCAG
AGCACTCGGAACCTCCCCAGGCCTCCAGCAGCATGACCGCCTGTGGCCTGGCTCGGGACGCCCCGAGGAAGCAGC
CCGGCGGTCA GTCCAGCACAGCCAGCGCTGGGCCCCCGTCCTGACCTGAGCGGTACCACCAGCCCCAGGCCTGC
GGAGGCGCTAGTCCACCAGAGCCCCTCCCCGCCCCTCTCCCCACTCCGCATCCCTCGCCCCCTCCCCACCTCCC
ACCCCCACCTGTAAACTAGGCGGCTGCAGCAAGCAGACCTTCGCATCAACACAGCAGACACCAAAAACCAGTG
AGAGCCCCGCTCTCTACCGCCCGCCCCAGCACTCGCTAGCTTTCCTGACACCTGGAAGTGTGCACCTGGCACCA
AGCGGAAAATAAACTCCAAGCAGCCAGTAGCCCCGAAAAAAAAAAAAAAAAAAAA

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FIGURE 5866

MAAIPSSGSLVATHDYRRRLGSTSSNSSCSSTECPGAIPHPPGLPKADPGHWWASFFFGKSTLPFMATVLESA
EHSEPPQASSSMTACGLARDAPRKQPGGQSSTASAGPPS

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FIGURE 5867A

TGCTCACCTCTGACAGCCAGACAAGGGCTGTGCTCAGGGGCAGCTCGGCTGGGCACACAGTAGGTGCTTTAGCGG
ACAGCACTGAGGCCCCCAGCAAGAAGCCCATGAGCTCCTCCCCCTCCCGCAGTGCCGCCGACATCTACATCCGGG
AGTATTTCCACAGCCACGTACGCGGCGGCCACCCCGAGGGCACTCCTCTCCGTGTGATGTACACGGACCGGCCG
TGAGCCAGACGGACCCAGTCACGCTGCAGTACTGTTGCTGACCGACGACCGCCAGGCTTTCCGCCCCGCCACAC
GGCAGAGCTGGCGCGGCACCGCGTGGTGGTACCACCACCTCCCAGGCCCGTGAGCTCAGGGTGCCGGTTCGGCT
TCTTCTCCACATTCTCATCGATGAGGCGGCCAGATGCTGGAGTGCGAGGCCCTACCCCGCTGGCCTATGCCT
CGCACGGCACCCGCTCGTGTGGCGGGCGACCACATGCAGGTACACCCCGGCTGTTAGTGTGGCCAGGGCCC
GGCGGGCCGAGCACACGCTGCTGCACCGCCTCTTCTGTGCTACCAGCAGGAGACTCACGAGGTGGCGCGGCAGA
GCCGCTGGTCTTCCACGAGAACTACCGCTGCACGGACGCCATTGTAGCTTCATCTCGCGCACTTCTACGTGG
CCAAGGGCAACCCCATCCACGCCAGGGGCAAGGTTCCGCCCCACCCCGGCACTACCCGCTCATGTTCTGCCACG
TGGCGGGCAGCCCAGACCGGGACATGTCCATGGCGTCTGGCTGAATCTGGCTGAGATTGCGCAGGTCGTCGAGA
AGGTGCAGGAGGCCTACAACACCTGGCCCAGCTGCTGGGGCGGCCGCGAGCAGAGGTGCATCTGTGTCGTTTCCC
ACGGTGCCCAAGGTCACTGAGGCAGGAGCTGAGGAGGCGGGACCTAGGCCAGGTGTCTGTCGGCAGTTTGG
AGATCCTGCCAGGGCGGCAGTTCCGGGTGCTGGTGCTCAGCACTGTGCACACCTGCCAGAGCCTGCTCAGCCCTG
GGGCACTGGCCCCCTGAGTTCTTACCGACGCCCGCGTGTCTAACACCGTCTTGACCCGCGCCAGTCCCACTGG
TGAGTAGTGGGGGACGCCGTGGCCCTCTGCTCCTTCGGGGCCTGCGGCAAGCTCTGGGAGAGCTTCATCCGTGAGT
GCGTGAGCGGCACAGTGTCTGCCCCGAGGGCCTGTCCATGGAGCAGGTGAGCAGGGTGTGGCGCAGAGACGGC
GCTGGCCTCCCCGAGGCACACAGGCTGGGGCAGCGGGGAAGTGGGAGGCTGCCCCAGAGCCAGTAGGGGACCTGG
CCGAGGAGCAGGCGGCTGTGGTGACGGCCATGGTGAAGGCAGAGCCGGGAGATGAGGCTCTGAGCCAGCATCCC
GTGACATCACGGCAACACAGCGCAGACGGAGGCTGCGGCAGCACCAGCAGGAGACGCAGTGAAGGAAGACGTGG
TGCCCGGGGCTGTGCGGCAGGAGCGGCTGCTGCAGCGGGCGTGGAGTCCACGGAGGCTGAGGATGCAGAGGCTG
ACTTCTGGCCGTGGGACGGGGAGCTCAACGCTGACGACGCCATCCTACGGGAGCTTCTGGACGAGAGCCAGAAGG
TGATGGTGACCGTTCGGGGAGGACGGGCTGCTGGACACTGTGCGCCAGGCCCGAGTCCCTGCAGCAGGCCCGGCTGT
ACGAGAACCTGCCCCCGGCTGCGCTACGGAAGCTGCTGCACGCGGAGCCCGAGCGGTACCGCCACTGCTCTTTCC
TGCCAGAGACCTTCGAGCGGGCGTCAGCCATCCCGCTGGACGATGCCTCCTCGGGCCCCATCCAGGTACAGGGGCC
GCCTGGACTGTGGGATGGCCTTCGCCGGGGATGAGGTGCTGGTGCAGTCTCTTCGGGAGACAAGGCGCCCGAGG
GGCGGCTTCGGGGCCGCGTGTGGCGTGTGAAGAGGAAGAGGCACGAGCTGGCGTTTGTGTGCCGCATGGACA
CGTGGGACCCGCGCATCATGGTCCCCATCAATGGCTCCGTGACCAAGATCTTCGTGGCCGAGCTGAAGGACCCAT
CGCAGGTCCCCATCTACAGCCTCCGGAAGGGCCGGCTGCAGCGTGTGGGGCTTGAGAGGCTACCCGCCGAGGCC
GGCACAGCCGGCTCTTCTGGGTCCAAATTGTCTGTGGCGGCAAGGCTTCTACTACCCGCTGGGCATCGTCCGGG
AGGTGCTGCCTGAGGCCAGCACCTGGGAGCAGGGCCTCCGCATCCTCGGCCTGGAGTACAGCTTGAGGGTGCCCC
CGTCGGACAGGCCACCATCACCAAGGTGCTGCAGAAATACCACAGGAGCTTGCCGGGTTGCCGGCCGCGGAG
AGGACTGCCGCGCCTTCTTGACCTTCACTGTGGACCCCGAGGGCGCTGCAACCTCGATGATGCCCTCAGTGTCC
GAGACCTGGGTCCCAGGTGCGAGGTGGCTGTGCACATCACTGATGTGGCCAGCTTCGTGCCCAGGGACGGGGTGC
TGGACGTGGAGGCGGAAGGCAGGGCGCTGCGTTCTATGCCCCGGCAGGGAGCCAGTGCCCATGCTGCCGGCCA
GCCTCTGCCAGGACGTCTCAGCCTCTGCTGCGCGGGACCGCTGGCCATCTCCCTGTTCTCACCATGGAGA
AGGCCAGTGGCCAGCTGAAGAGCCTGCGCTTTGCACCCTCCGTGGTCCAGTCTGACCGCCAGCTGTCTACGAGG
AGGCGGAGGAGGTGATCAGGCAGCACCCGGGTGCCGGCGTGAGCTGCCGGCCCGCTGGACTCCGTGGACGCCT
GCGTCGTGGCCGCGTGTCTCTCTCGGCTGCTGCGCCGGCACCGCTGCGGTCCGACTGCTTCTATGAGCAGC
CGGACGAGGACGGCACCCCTGGGCTTCCGCGCGGCCACATCATGGTGAAGGAGTACATGATTAGTTTAATAGGC
TCGTGGCTGAGTTCTTGGTGGGCAGCGAGTGACGCGGACGGTACGCCTCTGCGGTGGCAGCCAGCACCCCGCA
GCCAGCAGCTCAAGGCCCTGTGTGAGAAGCATGGGGACGGGTGCCCTGTCACTGCACCTCGGCCACCACTGC
ACGGCGGGGGGCGAGTCCCCCGACACGCGGCTGCACCTCCTGGCCTCCCTCTGGAAGCAGGTCCAGTTTGCTG
CCCGCACCCAGGACTACGAACAGATGGTGGACTTGGTACCACGGACGACATGCACCCATTCTGGCTCCTGCAG
GCCGCGACCTCCGCAAGGCCCTGGAGCGCTCGCGGTTCCGCCGCTGCGCCCGGGGCCACCAAGCAGAGGGCGGCC
ACTACTCGTGCAGGTGGACTGGTACACGTGGGCCACCTCGCCATCCGCAGGTACCTGGACGTGGTGTGTCAGC
GGCAGATCCTGCTGGCGCTGGGCCATGGGGGCTCTGCCTACTCTGCCAGGGACATCGATGGGCTCTGCCAGGCCCT
TCAGCCTCCAGCACGCACCTTGCCAGAGCTATCAGCGCGGGCGCGCAGCCTGCACCTGGCCGTGCAGCTCAAGG

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FIGURE 5867B

CCCAGCCTCTGGACAAGCTGGGCTTCGTGGTGGACGTGGAGGCGGGCTCCCGCTGCTTCCGGCTGCTCTTCCCCA
GCAACCGGGAGACGCTGCCTGACCCCTGCCCCGTCCCCTACGGCTCCCTGCAGCTGGCCGAGCACCCCCACGCCC
TGGCAGGCCGGCCGGGCTGCGGCTCCTGTGGCGGCGCCGTGTCTACTCAGCGCAGGGATCCAGCCCGCCCTGC
CACTGCCTGGCACTGTGCCGACCCACACACCCTGGCCGTGGAGACGGCCCTGTGGAAGCAGCTGCTGGAGCTGG
TGGAGCTGCAGCGCTGGCCGAGGCGGCTGCTCTCATCCAGGAGAAGGGCGAGGCGTCCAGCGGCGGGAGCTGG
TGCAGGTGCAGCGGAGCCACTGTGGCCATTTCTGGAGGTGGCCCGGGAGCTGGGCAGTGGGGACACCCTGCAGG
TGCAGCTCGGCACCAGCCTGCAGCACGGCTTCCTGGTACCGAGCCCTCAGCTCTGGACGGTGGCACCGGGCTTCA
GCCTCTGCCTGGAGCACGTGGAGCGGCCCCGAGACTGCTTCTCAGGCCGTGTGTACCGGGCCCCGAGGGACCGGT
ACCGCGACGTGGATGAGTACGCCTGCGTGTGGGAACCAATTCTGCGCCCTGGAGTGGGCCACCGGCGCGGTGGCCG
AGAATGACTCCGTACACTTCAGCACCTGAGTGTCTCCTGGGAGGCGTCACGGACGCCGAGGGGCAGCTGCAGG
GCGCCTTCGCCTGGAGGCCGCTTCCTCGAGGAGAAGTGTGCCGACATCAACTTCAGCTGCTGCTACCTCTGCA
TCCGGCTCGAGGGGCTGCCGGCTCCACGGCCAGCCCACGCCCTGGGCCAGCAGCCTCGGCCCTGGCCTGAATG
TTGACCCCGGCACGTATACCTGGGTGGCCACGGGCAGACGCAGGACTGGGACCAGGAGCGCCGGGCAGACCGGC
AGGAGGCTCCAGACGGGTGCACCTCTTCGTCCACCACATGGGCATGGAGAAGGTTCCGGAAGAGGTGCTGAGGC
CGGGCACCTGTTACCGTTGAGCTGCTGCCAAGCAGCTTCCTGATCTCCGCAAGGAGGAAGCCGTGCTGGAC
TAGAGGAGGCGTCCCCGCTGGTCACCAGCATCGCACTGGGCCGGCCTGTCCCGCAGCCCTCTGCAGAGTGATCC
CCAGCAGGTTCTTGGAGCGGCAGACCTACAACATCCCCGGAGGCCGCCACAAGCTGAACCCAGCCAGAACGTGG
CGGTACAGGGAGGCTCTGGAGAAGCCTTTACGGTCATTACAGGGCCACCAGGTACAGGGAAGACGATCGTGGGCC
TCCACATCGTATTCTGGTTTCATAAATCAAACCAGGAGCAGGTGCAGCCCGAGGGCCCCCCCCCTGGGGAGAAGC
GGCTGGGGGGTCCCTGCATCTTGTACTGCGGCCCTCCAACAAGTCGGTGGATGTCTTGGCAGGACTGCTCCTGA
GAAGGATGGAGCTGAAGCCCCCTCCGTGTGTACAGTGAGCAGGCTGAGGCCAGCGAGTTCCAGTGCCCGTGTGG
GCAGCAGGAAGCTGCTCAGGAAGAGCCCCGGGAGGGGAGGCCGAACCAGAGCCTCAGGAGCATCACCTGCACC
ACCGGATCCGGCAGGCCCCCAACCTTACTCGTCGGAAATCAAGGCCCTTTGACACCCGGCTGCAGAGAGGGGAGC
TCTTCTCCAGGGAGGACCTGGTCTGGTACAAGAAGTCTTGTGGGAGGCTCGGAAGTTCGAGCTGGACCGGCATG
AGGTACATCTCTGCACCTGCTCCTGTGCAGCCTCTGCCAGCCTCAAAATCCTGGACGTGAGGCAGATCCTTGTG
ACGAGGCAGGCATGGCCACGGAACCTGAAACCTCATCCCCCTGGTGCAGTTCCACAGGCCGAGAAGGTGGTTC
TTCTCGGAGACCACAAGCAGCTGCGGCCTGTGGTCAAGAATGAGCGGCTGCAAAACCTGGGTCTGGACCGGTCTC
TGTTTCGAGCGGTACCACGAGGACGCACATATGCTGGACACTCAGTACCGCATGCATGAGGGCATCTGTGCCTTCC
CCTCTGTGGCGTTCTACAAGAGCAAGCTGAAGACGTGGCAGGGCCTGAGGAGGCCGCCAGTGTCTGGGCCACG
CTGGCAAGGAGAGCTGCCCTGTATCTTTGGCCACGTGCAGGGCCACGAGCGGAGCCTGCTGGTGTCCACGGACG
AAGGGAATGAGAACTCCAAGGCCAACCTGGAGGAGGTGGCTGAGGTGGTCCGTATCACCAAGCAGCTGACCCTGG
GGAGGACCGTAGAGCCCCAGGACATCGCCGTCTCAGCCCTACAACGCGCAGGCCCTCTGAGATCAGCAAGGCCC
TTCGGCGAGAGGGCATCGCCGGGGTGGCCGTGTCTCCATCACCAAGAGCCAGGGGAGCGAGTGGCGCTATGTGC
TGGTGAGCACCGTCCGCACCTGTGCCAAGAGCGACCTGGACCAGCGGCCACCAAGAGCTGGCTCAAGAAGTTTC
TGGGCTTCGTTGTGGACCCCAACCAAGTGAATGTGGCTGTACGCGGGGCCAGGAGGGGCTCTGCCTGATCGGAG
ACCACCTCCTTCTGCGCTGCTGCCCCCTCTGGCGTAGCCTCCTGGACTTCTGCGAGGCTCAGCAGACCTTCGTGC
CTGCCGGCCAGGTGCGCGTCTGCAGGAGGCCAATATGCCTTCTTGAAGAGCCCTCTCCACCTGCAAGGTGCCAG
GACTGGGAGGGAAGTCCAGGGCCCCCCCCACCCTCCCCACCACCTCCGCCATCAGCTGCCTGGGCCAGCCTGC
CTCCTGGCCTCAGGATCTCCCTGGGGCAGGAAGTGGGTGGACTTGGAGGAGGAACGGCAAGGGCCGGTCCCCACA
CTCTTGCTCCTCCTGGGCATCTGGGGACAGGAACACCTCTCAGGGTGGCCAAGAGGGGCTTCCTTGGGACCAAGT
CAAGGAAGTCTGCTGTCCCTGGGAAGTCTCAGAACCAGGAAGGAACCTGTGGAGGCTGCCCTTTGACCTTTG
GACGCCACCTGTAATCACTCTGGATGGTGTCTGTGGAGTTACAGTTTATTTTCTATTTAAATGAATAAAAGCCA
GCATCCTGCCGGGCGTGGTGGCTCACGCCATAATCCAGCACTTTGGGAAGCCGAGGCGGGCAGATCACCTGAGG
TCAGGAGTTTCGAGACCATCCTGGCCAACATGGTGAAACCCCGTCTCCACTAAAAATACAAAATTAGCTGGGCGTG
GTGGCGGGCGCCTGTAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCTGACTCCAGGAGGCGCAGGCT
GCAGTGAGCTCTGATGGTACCACTGCACCTCCAGCCTGGGTGACAGAGCGAGACCTGTCTTAAAAAATAAAACAA
AACAAAACCAGCATCTGTTACTGGAACAGAGACCTCAGCCCCAAGCTCAGGACAAGGAGGCTCCCTGGGAGAGGG
GGCCTTTCTCCACCATCACCGCTGTGTCTTCAGGGGCTGCTGGAGGGCAGCCCAAAGCCAGGGGCCACCCC

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FIGURE 5867C

GCCCCACCCACCCACCCACCCCTCTGAAATGTGAAAAGCCTGCACTCTTCCTGTGGGCTGCGCAGTGGGCTCG
GGGGTTGGGGGTGCCGGGGCGATGCTTCCACCCTGGACTGAGTGTTTCGGGGCAGCCTGCTCGGCTGTATGTTTC
TCGCACGCTCACCCGCTTCAGTGCGGCTCTGTCCCTGCTGCCGCTCCAGTCCTGAGGGAGGGGCTTGCCCCACC
TTCIACATTCCAATTTTATATCTTTGAATTATGTGATTAGATATTAATTTAATGAT

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FIGURE 5868

MSSSPSRSAADIIYIREYFHSVSGGHPEATPLRVMYTDRPLSQTDPTLQYCCLTDDRQAFRPPTRAELARHRVV
VTTTSQARELRVPVGGFFSHILIDEAAQMLECEALTPLAYASHGTRLVLAGDHMQVTPRFLSVARARAAEHTLLHR
LFLCYQQETHEVARQSRLVFHENYRCTDAIVSFISRHFYVAKGNPIHARGKVPPHPRHYPLMFCHVAGSPDRDMS
MASWLNLAETIAQVVEKVQEAYNTWPSCWGGREQRCICVVSHTGAQVSALRQELRRRDLGQVS VGSFEILPGRQFRV
VVLSTVHTCQSLLSPGALAPEFFTDARVLNTVLTRAQSQLVVVGDAVALCSFGACGKLWESFIRECVERHSVCPE
GLSMEQVEQGVARRRWPPRGTOAGAAGNWEAAPEPVGDLAEEQA AAVVTAMVKAEPGDEALSPASRDITATTAQT
EAAAAPAGDAVKEDVVP GACAAGAAAAAGVESTAEADAEDFWPDGELNADDAILRELLDESQKVMVTVGEDGL
LDTVARPESLQQARLYENLPPAALRKLHAEPEYRHC SFVPETFERASAIPLDDASSGPIQVRGRLDGMAFAG
DEVLVQLLSGDKAPEGRGRVLGVLKRRRHELAFCRMDTWDPRIMVPINGSVTKIFVAELKDPSQVPIYSLRK
GRLQRVGLERLTAEARHSRLFWVQIVLWRQGFYYP LGIVREVLPEASTWEQGLRILGLEYSRLVPPSDQATITKV
LQKYHTELGRVAGRRDCRAFLTFTVDPQGACNLDDALSVRDLGPRCEVAVHITDVASFVPRDGVLDVEARRQGA
AFYAPGREPVPMPLPASLCQDVLSLLPGRDRLAISLFLTMEKASGQLKSLRFAPSVVQSDRQLSYEEAEVIRQHP
GAGRELPARLDSVDACVVAACYFSRLLRRHRLRSDCFYEQPDDEGTLGFRAAHIMVKEYMIQFNRLVAEFLVGSE
CTRVTPLRWQPAPRSQQKALCEKHGDRVPLSLHLGHHLHGSGGSPDTRLHLLASLWKQVQFAARTQDYEQMV
DLVTTDDMHFFLAPAGRDLRKALERSAFGRCAHGHQGGHYSLQVDWYTWATSPIRR YLDVVLQRQILLALGHG
GSAYSARDIDGLCQAFSLQHALLAQSYQRRARSLHLAVQLKAQPLDKLGFVVDVEAGSRCFRLLFP SNRETLPDPC
PVPYGSLLQAEHPHALAGRPGLRLLWRRRVYSAQGS SPPLPLPGTVPDPHTLAVETALWKQLLELVELQRWPEAA
ALIQEKGEASQRREL VQVQRSHCGHFLEVARELGSGDTLQVQLGTS LQHGF LVPSPQLWTVAPGFSLCLEHVERP
GDCFSGRVYRAPRDRYRDVDEYACVWEPFCALESATGAVAENDSVTLQHLSVSWEASRT PQGQLQGAFRLEAAFL
EENCADINFSCCYLCIRLEGLPAPTASPRPGPSSLG PGLNVDPGTYTWVAHGQTQDWDQERRADRQEAPRRVHLF
VHHMGMEKVPEEVL RPGLFTVELLPKQLPDLRKEEA VRGLEEASPLVTSIALGRPVQP LCRVIPSRFLERQTY
NIPGGRHKLNPSONVAVREALEKPF TVIQGP PGTKTIVGLHIVFWFHKSNQE QVQGGPPRGEKRLGGPCILYC
GPSNKSVDVLAGLLLRMELKPLRVYSEQAEASEFPVPRVGSRKLLRKSPREGRPNQSLRSITLHHRIRQAPNPY
SSEIKAFDTRLQRGELFSREDLVWYKKVLWEARKFELDRHEVILCTCSCAASASLKILDVRQILVDEAGMATEPE
TLIPLVQFPQAEKVLLGDHKQLRPVVKNERLQNLGLDRSLFER YHEDAHMLDTQYRMHEGICAFPSVAFYKSKL
KTWQGLRRPPSVLGHAGKESCPVIFGHVQGHESLLVSTDEGNENSKANLEEVAEVVRITKQLTLGRTVEPDIA
VLTPYNAQASEISKALRREGIAGVAVSSITKSQGS EWRYVLVSTVRTCAKSDLDQRPTKSWLKKFLGFVVDPNQV
NVAVTRAQEGCLIGDHLRLCCPLWRSLLDFCEAQQTLPAGQVRVCRRPTMPS

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FIGURE 5869

ATGGACGAGGAGAGCCTGGAGTCGGCCTTGCAGACCTACCGTGCAGCTGCAGCAGGTGGAGCTGGCCTTGGGC
GCCGGCCTGGATTTCGTCTGAGCAGGCTGACCTGCGCCAGCTGCAGGGGGACCTGAAGGAGCTCATCGAGCTCACC
GAGGCCAGCCTGGTGTCTGTCTCAGGAAGAGCAGCTTGTTGGCCGCGCTGGACGAAGAGCGCCCGGGCCGCCAGGAA
GATGCTGAGTACCAGGCTTTCCGGGAGGCCATCACTGAGGCGGTGGAGGCACCAGCAGCGGCCCGTGGGTCCGGA
TCAGAGACCGTTTCTAAAGCAGAGGCGGGGCCAGAATCTGCGGCAGGTGGGCAGGAGGAGGAAGAGGGAGAGGAC
GAGGAAGAGCTGAGTGGGACAAAGGTGAGCGCGCCCTACTACAGCTCCTGGGGCACTCTGGAGTATCACAACGCC
ATGGTGGTGGGAACGGAAGAGGCGGAGGATGGCTCGGCGGGTGTCCGTGTGCTTTACCTGTACCCCACTCACAAG
TCTCTGAAGCCGTGCCCCTTCTTCTGAGGGGAAAGTGCCGCTTTAAGGAGAACTGCAGGTTCTCCCATGGGCAG
GTGGTCTCTCTGGATGAGCTGCGCCCCCTTCCAGGACCCAGACCTGAGCTCCCTGCAGGCCGGCTCTGCGTGTCTG
GCCAAGCACCAGGATGGCCTCTGGCACGCAGCACGCATCACCGATGTGGACAACGGCTACTACACAGTCAAGTTT
GACTCGCTGCTGCTGAGGGAGGCCGTGGTGGAGGGGGACGGCATCCTGCCCCCACTGCGCACAGAGGCCACAGAG
TCCGACTCAGACAGCGACGGTACGGGTGACTCCAGCTATGCCAGAGTGGTGGGGTCAGATGCTGTGGACTCTGGG
ACCTGCAGCTCTGCCCTTTGCTGGCTGGGAGGTGCACACGCGAGGTATAGGCTCCAGACTCCTCACCAAGATGGGC
TATGAGTTTGGCAAGGGTTTGGGCCGACACGCGGAAGGCCGGGTGGAGCCCATCCATGCTGTGGTGTGCTCGA
GGGAAGTCGCTGGACCAAGTGTGTGGAGACCCTGCAGAAGCAGACCAGGGTTGGCAAGGCTGGCACCAACAAGCCC
CCCAGGTGCCGGGGAAGAGGGGCCAGGCCTGGGGGCCGCCAGCTCCTCGGAATGTGTTTGACTTCCTCAATGAA
AAGCTGCAAGGTGAGGCTCCTGGGGCCCTAGAAGCCGGGGCGGCCCCAGCGGGGAGGAGGAGCAAGGACATGTAC
CATGCCAGCAAGAGTGCCAAGCGGGCCCTGAGCCTGCGGCTCTTCCAGACTGAGGAGAAGATCGAGCGAACCCAG
CGGGACATCAGGAGCATCCAGGAGGCTCTCGCCCGCAACGCTGGCCGGCATAGCGTGGCGTCAGCCCAGCTGCAG
GAGAAGCTGGCAGGAGCCCAGCGCCAGCTGGGGCAGCTCCGGGCTCAGGAAGCCGGCCTGCAGCAGGAGCAGAGG
AAGGCAGACACCCACAAGAAGATGACTGAGTTCTTAG

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FIGURE 5870

MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQE
DAEYQAFREAI TEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNA
MVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVSLELRPFQDPDLSSLQAGSACL
AKHQDGLWHAARITDVDNGYYTVKFDSLLEAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSG
TCSSAFAGWEVHTRGIGSRLLTGMGYEFGKGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKP
PRCRGRGARPGGRPAPRNVFDFLNEKLQGCAPGALEAGAAPAGRRSKDMYHASKSAKRALSRLFQTEEKIERTQ
RDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQEQRKADTHKKMTEF

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FIGURE 5871A

CGCTGCCGGTGCCGACCCGCGCCCTCTGCCGCCGCCGCCGCCGCCGGGGTCTCCAGGCTGAGGAGTGCGT
CGGCCGCTGCCAGCAGCGCCGCGAATCGGGGAGCGGAGCCGCGGAGCCGGCGGGAGGGCGGGCGGGCGGGCGGA
CGGGCAGAATAGCCTAACATGGCAGACCAGAGACAGCGCTCACTGTCTACCTCTGGGGAGTCATTGTACCACGTC
CTTGGGTTGGACAAGAACGCAACCTCAGATGACATTAAAAAGTCTATCGGAAGCTTGCCTTGAAATATCACCCC
GACAAGAACCCGACAACCCGGAGGCCGCGGACAAGTTTAAAGGAGATCAACAACGCGCACGCCATCCTCACGGAC
GCCACAAAAGGAACATCTACGACAAGTACGGCTCGCTGGGTCTCTACGTGGCCGAGCAGTTTGGGAAGAGAAC
GTGAACACCTACTTTCGTGCTGTCCAGCTGGTGGGCCAAGGCCCTGTTTGTCTTCTGCGGCCCTCCTCACGTGCTGC
TACTGCTGCTGCTGTCTGTGCTGCTGCTTCAACTGCTGCTGCGGGAAGTGTAAAGCCCAAGGCGCCTGAAGGCGAG
GAGACGGAGTTCTACGTGTCCCCGAGGATCTGGAGGCACAGCTGCAGTCTGACGAGAGGGAGGCCACAGACACG
CCGATCGTTCATACAGCCGGCATCCGCCACCGAGACCACCCAGCTCACAGCCGACTCCACCCACAGTACCACACT
GACGGGTTCAACTAAATCCAGGAGGAGCTGTGGTCAGAGGAGGAGCCGGCGCCTGGCCACGCCAACCTTAGAATC
ATGAACTGTAGTCACAGAGATGGGAAGGCAGCCTCCTGCCTGCCCTGGCCTTGTGGGGCCCTCCTGCCTCCAC
GCCCCACCCAGCGTCGACCCCTTGACCCACGAAGTGCCTAGCATGCAGTATTTAAAGCAGTGTAGCTACGGTCTTCT
GTTTTTTTCCCTTTTTTAAATAGCATGTATGGGGTCTGTTCATGTCTGTGTGTGGACATTCCGCGGCATGACC
GCGTGAACCTGCACGGTGGAGCTGCCTCAGGGCTGTGCGTCAGGTTGGTCCAGTGAGGGGTGACTGCAGCCGGTCA
GGTGGGCGAGGAGAAGGGGGGCTGCCCCCTTTCCTACCTGTGCTTGAGGGGCCGAGGCAGGTGCTGCCTGGCAGA
GCTGTGTTACCGTCTTGGCCTCGGGGTCTGGTCCACACTCTGTGCTCCAGCCTTGAGGCTGCAGTAGGACTCTG
ATCTACCTGCCAGAAGAGAGGGCGGGGCCGCTCCTCCTGGCGTCACCGCGTCACTGTCACTTCTTGGTGTCTG
TGCTGGGCATGGTTGGCTTGGGGTCTGTGGTTTCTGGGCCTTGTGGCAGGGTTTCTCCCGTGGGAGAAATTTGG
TGTGGAAGCATAGGAGGCCCTTCCGAGGTTGACACCGTGTCTCCGCGGTGTTTCTCGCCTGGTCTGCTCGT
GTGTGGACGCTGCCGTTCTGGTTCTCGGAGGTGTGCTCTCGCCGTGTTGGGGTTATTTGTCTGTGTTCTGTCAC
TTTTCCCGGGCTCTGAGCTGGATTGATGGGGCCAGTCTCCCCCTCCCATCTTGAGGTCGTTCTCCACATTCTT
CCAGCACACCTGTCTTTCCATAGCCCTTTTTGGACCTTTAGAACCACAGATGATAGGACCAGCCCCAATGAGCCA
CAGTCAGAGAGTAGATTGTGCATGTGTGAGCACCCAGCTACTGGGGACGGGGGCTCTCCACGACCCCTCCTCCT
GTGTTTGCCAGAGCTCCCATCTGCCCCACTCGCCTTGGCCCCGTATCGATGATTAGGCAGAGCCAGATTGCTT
AGGTCCCTGGAGGAAGGACTGACTGGACCAGAGGGACCTCTGGCTCAGGAGGGTTGGGTCCCTGGGAGGCCGGC
AGCCAGGCCACAGAATCCACACGTGGACCATTGTGGGTCCCTGGGAGGCCGGCAGCCAGGCCACGGAATCCACAC
GTGGACCATTGTGGGTCCCTTGGGAGGCCAGCAGCCAGACTACGGAATCCACATGTGGACCATGGGAAGTCAGTC
TCTTGCGTGTCTAGACCTTGTGGGTGGCGCCCTGCATAGGGGAGCAGGGGGAACGGGTCTGATGTCCCTGTGCT
GGCTGAGGGCTCAGAGCTGCCCCGACTCCGTAGCTCATGGGATGTGCTGGGCCTGCCTTGGCGCCATGCTGCAG
ACTCCAGTGGGCCTGGTTTCTGCAGAATGTCCATGGTGGCCGCTGCAGAGTTGCAGAGGTCCCTGTAGAGATAAA
GCTGAGGAGGAGGCTGTGTGTGATGGCTCTGGCTCGGACCAACCAGATGAGCCTCCTGAAGCCCCCTTCCCTGCC
TGCCCTGCTGACCCGTGGCCCCAGCTCACTCATTGCCCTCAGCAGCCACCCGAGGCTGTGCAGAAGGGTAGGTTCA
GGTTGACCAGGAAGCTGCCAAAAGGGACATGGATATGAGGATACATCTGGACGTGCTTAGGAACAGGGTGTGCT
TGAGGGCCCCCAGCTGACCCCTACTGCAGATCCGCATGTGGACCATGAGCCGGCTGCCAGCACTAGGTCTGGGC
AGCTTTGTTTGTCCCACTTTTCTTTGTTTCTTCTCACTAAATGATCACGAAGACCTTTGACAAGAGGAGAGATA
TGCATGTGATATTAAATTAGAAATAATTTATCAAATCAGACCTCTCCTAAAAGAAATAAGAAATTCATTGTTTG
GCCCATCCTGAAAGGTGAGGTGGCGAGACAGTGGGTGCCCTCCGTGCCGCTTCGTGCAGCAGCAAGTTCAGCCTG
AGATGCTGGCTGTACTCAGCCTTTGCAATTTTTGTAGATGTAGCTTAGGACGTGAGTTATTTTCCGACAGACTGG
CCAAGAGCCAGGTTCTAAGCTTGGACCTAAGGTAGAAAGCTGCCCATCGGGGCCCTAGCTCAGCCCCACAGGC
CCTCTGTTGGGCCTGCACACAGCTCTGTGGCTAGAACACTCCAAGGCCCTTCGGTACCCATCAGAGTGGGCCCCCT
TGCCAGGTGGCTTTTTCAGTTACAGAGTCCAGTGGACCATTTTGTAGAACCATGCAGCTCCCTGCGGAAGGTGGGG
TAGGGTGGGAAAGAGGAGCAGGTCTGGAGGTTTGTGGAACCCAGTCCCTGCAGAATCTGTAAAACCTAATAAAT
CATGGTTGTGGCCATTCTCACGGTGGTGATTGTGATTAGACGACCCCCGGAAGCCAGACACTCGGGGCCCTGGA
GTTCTTCCCCCTGCCTGACCTAGAAGCAGAACCCTTTTTCAGCGCTCTGCCCTGTGGCTTTAAGGCTTTGTCTTA
ATTTAAGGAAAAAGATCCTCCCGGGTTTTATTTCTCTCTTTCTTGGAGTGACTGTTTCCCTATAATTAAAAGAGG
TGGTGAGTCTTGGGGCAGCTTCCGCGCCTCCCTGTCCAGTGCTAACAGATCAGGACGCCCCCAGCACCCTGCC
TGCTTTTGTGTTGGTGGCAGTGACGGGACCCGACTCCTCACTCTCGGGCCGACACAATGCTGTGAGCAAGTGTGG

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FIGURE 5871B

CCATGGGGCACAGAATGTCCCTTTGGACGCCGCTGCTGGGGGCTGCCAGGGGGCCCTCTGGGGTCTGTGCTTTGAGGC
CCGTCCGGTTTCACGAGGGGGTCCGGGCAGCACTGACTGCTTCCGACCTGCAGGAGGCGTAGGAGCGGCCCTGCGG
GCCCTTTCACGGCAGCTGCTGCTGTATAGATTTGTCTCCACTCAGTGACGTGGGATTTTTTTGTCTTCCTTTTGG
CTTTATTTTTAACTGCTTTAGATATTACTGCTCAGTGTTTGTGAACTTTCCTAGTTCTCTATGTTGTTAGTGCA
GCCAGCACCCAGTGGGGACCTACTAGAAAAAGGAAGTGGCATGCACACGTGCCCAGCAGGAAAAGCTTCGTCTTC
ACGTCGGCTGCTGCCATCCAGAAGAGGCCCTGGAGCCTCACGCCGTCGAGGCTGCTCTCAGGCGTTCTGTTCCGG
GCGAGGCTTGTGCTGCAAGGAAGGGCACCAGCATGCAGGCTGCCACTGGAGGGTCCGGGTGCTGCGGGCAGAGTT
CAGCGCTTGTCCACCCTCCCTTAGCTCTGACTCAGTGATCCTACTGTGGGGACATCTCGTGAGGGGACACGAAA
TGACTGATCTCACCCCTTTCCAGTATTAGAGCTGTGAACCCCTGTGGCGCAGGACTGGCCTGTGTCTGTTATTT
TGGTTGTAAATCATTCTCTGTGGAATTGGCAAAAGCTACATTTTTACTGTCCTTACCAGCAACAGTTTGCCTCG
TCACATGCTGTGAGTGTGGGCTGTGGTGTGTCCGTGTGTGTACATATGTGTATATGTATATATACAGCAGCAGGA
GTGTCATTATGCTGCTGTCCCTGGTGAAGTGACAAGTACAATTAAAGGTGGCTCTGAAATGGCCTCTGGTTTC
TTGGGAGTCGGGCAGGGACCTGCAGGAGGCTTTCCAGCAGGTGCACAGAAGGAAGCGCTGAGCCCACTGTGTGC
AGAGGGTGTGTGCCCAGGGCACTGCCACGGCCCCCACCAGCATTGGCCTCTGCTCTGCAGGGTGGGGTGCCCATC
CTGGGGGCTGTGTGTCATGCTCACCTGACCCAGGTGTGTGTCCCGGTGTGAAATCGAGGAGGGGACTGGAAGCCC
TTCCCTGCCTTGAAACATGAAAGCTGATTTTCTGAGCAGCAGATACGGTCAGTGGCAAAGCTGCATCTGAAGGGC
GGCCTGGGAAGGGGCCCTGTGCTGGCCCCGGGTCCGCCCCAGAGGAGTCCACACAGCACCACCTCCAGAAGGGGC
TGGGCCCCGGGGTCCTGCAGGCGGCACCTTTTGGTAGAGTTTGTTCCTGGAAAATGGGGAAAATGTTTCAAGCC
AGGTGAGGGGGGAAGTTAACACTGAAATATGTATTGTTTTTAAAAATCAAATGCACACGCATGGAAGCTGCTTGT
CCATGCACTGGTTTTTGTCACTGGCGTCCTGGAATCCGACCGTGTGGGGTGCAGGCCTGTCTCAGACTCCGGCTGA
TCCTGGCTCGAGCACACACATCTAAGGGCCAGGCTGGTTCCGCATGGTGATCTCCGTCTGTATGTCTGAATGTT
GGCCTAAAATAAAGATTACTGTTGTAAAT

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FIGURE 5872

MADQRQ RSLSTSGESLYHVLGLDKNATSDDIKKSYRKLALKYHPDKNPDNPEAADKFKEINNAHAILTDATKRNI
YDKYGS LGLYVAEQFGEENVNTYFVLSSWWAKALFVFCGLLTCCYCCCCCLCCCFNCCCGKCKPKAPEGEETEFYV
SPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFN

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FIGURE 5873

CTACGGAGTGCATCGGACGTCGAAGCCTAGAGTCTCTGCGTCTTTCCCTCTTCCGCTGCCTCATTCTTTCTTC
CTAGCCTTGGTCGTCGCCGCCACCATGAACAAGAAGAAACCCTTCTAGGGATGCCCCGCCCTCGGCTAC
GTGCCGTGGCTGGGCCGGGGCGCCACTGGCTTCACCACGCGGTGACACATTGGGCCCGCCCGTGATGCAAATGAC
CCTGTGGATGATCGCCATGCACCCCCAGGCAAGAGAACCGTTGGGGACCAGATGAAGAAAAATCAGGCTGCTGAC
GATGACGACGAGGATCTAAATGACACCAATTACGATGAGTTTAATGGCTATGCTGGGAGCCTCTTCTCAAGTGGA
CCCTACGAGAAAGATGATGAGGAAGCAGATGCTATCTATGCAGCCCTGGATAAAAGGATGGATGAAAGAAGAAAA
GAAAGACGGGAGCAAAGGGAGAAAGAAGAAATAGAGAAATATCGTATGGAACGCCCCAAAATCCAACAGCAGTTC
TCAGACCTCAAGAGGAAGTTGGCAGAAGTCACAGAAGAAGAGTGGCTGAGCATCCCCGAGGTTGGCGATGCCAGA
AATAAACGTCAGCGGAACCCACGCTATGAGAAGCTGACCCCTGTTTCTGACAGTTTCTTTGCCAAACATTTACAG
ACCGGAGAGAACCATACTCAGTGGATCCCCGACAACTCAATTGGAGGTCTTAACACACCCCTATCCAGGTGGA
CTAAACACTCCATACCGAGGTGGAATGACGCCAGGACTGATGACACCTGGCACAGGTGAGCTGGACATGAGGAAG
ATTGGCCAAGCGAGGAACACTCTGATGGACATGAGGCTGAGCCAGGTGTCTGACTCCGTGAGTGGACAGACCGTC
GTTGACCCCCAAAGGCTACCTGACGGATTTAAATTCCATGATCCCGACACACGGAGGAGACATCAATGATATCAAG
AAGGCGGCACTGCTCCTCAAGTCTGTTCCGGGAGACGAACCCATCATCCCCGCCAGCCTGGATTGCATCAGCCCGC
CTGGAAGAAGTCACTGGGAAGCTACAAGTAGCTCGGAACCTTATCATGAAGGGGACGGAGATGTGCCCCAAGAGT
GAAGATGTCTGGCTGGAAGCAGCCAGGTGTCAGCTGGGGACACAGCCAAGGCCGTGGTAGCCCCAAGCTGTCCGT
CATCTCCACAGTCTGTCTAGGATTTACATCAGAGCCGACAGCTGGAAACGGACATTCGTGCAAAGAAGCGGGTT
CTTCGGAAGCCCTCGAGCATGTTCCAACTCGGTTTCGCTTGTGGAAAGCAGCCGTTGAGCTGGAAGAACCTGAA
GATGCTAGAATCATGCTGAGCCGAGCTGTGGAGTGTGCCCCACCAGCGTGGAGCTCTGGCTTGCTCTGGCAAGG
CTGGAGACCTATGAAATGCCCGCAAGGTCTTGAACAAGGCGCGGGAGAACATTCCTACAGACCGACATATCTGG
ATCACGGCTGCTAAGCTGGAGGAAGCCAATGGGAACACGCAGATGGTGGAAGATCATCGACCGAGCCATCACC
TCGCTGCGGGCCAACGGTGTGGAGATCAACCGTGAGCAGTGGATCCAGGATGCCGAGGAATGTGACAGGGCTGGG
AGTGTGGCCACCTGCCAGGCCGTCTGCGTGCCGTGATTGGGATTGGGATTGAGGAGGAAGATCGGAAGCATAACC
TGGATGGAGGATGCTGACAGTTGTGTAGCCACAAATGCCCTGGAGTGTGCACGAGCCATCTACGCCTACGCCCTG
CAGGTGTTCCCCAGCAAGAAGAGTGTGTGGCTGCGCGCCGCGTACTTCGAGAAGAACCATGGCACTCGGGAGTCC
CTGGAAGCACTCCTGCAGAGGGCTGTGGCCCACTGCCCAAGCAGAGGTGCTGTGGCTCATGGGCGCCAAGTCC
AAGTGGCTGGCAGGGGATGTGCTGCAGCAAGGAGCATCTGGCCCTGGCCTTCCAGGCCAACCCCAACAGTGAG
GAGATCTGGCTGGCAGCCGTGAAGCTGGAGTCCGAGAATGATGAGTACGAGCGGGCCCGAGGCTGCTGGCCAAG
GCGCGGAGCAGTGCCCCACCGCCCGGGTGTTCATGAAGTCTGTGAAGCTGGAGTGGGTGCAAGACAACATCAGG
GCAGCCCAAGATCTGTGCGAGGAGGCCCTGCGGCACTATGAGGACTTCCCCAAGCTGTGGATGATGAAGGGGCAG
ATCGAGGAGCAGAAGGAGATGATGGAGAAGGCGCGGAAGCCTATAACCAGGGGTGAAGAAGTGTCCCCACTCC
ACACCCCTGTGGCTTTTGTCTCTCGGCTGGAGGAGAAGATTGGGCAGCTTACTCGAGCACGGGGCCATTTTGGA
AAGTCTCGTCTGAAGAACCCTGAAGAACCTGGGCTGTGGTTGGAGTCCGTGCGGCTGGAGTACCGTGCGGGGCTG
AAGAACATCGCAAATACACTCATGGCCAAGGCGCTGCAGGAGTGCCCCAACTCCGGTATCCTGTGGTCTGAGGCC
ATCTTCTCGAGGCAAGGCCCCAGAGGAGGACCAAGAGCGTGGATGCCCTGAAGAAGTGTGAGCATGACCCCAT
GTGCTCCTGGCCGTGGCCAAGCTGTTTTGGAGTCAGCGGAAGATCACCAAGGCCAGGGAGTGGTTCCACCGCACT
GTGAAGATTGACTCGGACCTGGGGGATGCCTGGGCCTTCTTCTACAAGTTTGAGCTGCAGCATGGCACTGAGGAG
CAGCAGGAGGAGGTGAGGAAGCGCTGTGAGAGTGCAGAGCCTCGGCATGGGGAGCTGTGGTGCGCCGTGTCCAAG
GACATCGCCAACCTGGCAGAAGAAGATCGGGGACATCCTTAGGCTGGTGGCCGGCCGCATCAAGAACACCTTCTGA
TTGAGCGGTTGCCATGGCCGTCTCCGTGGGGCAGGGTTGGGCCGCATGTGGAAGGGCTCTGAGCTGTGTCTCTCC
TTCATTAAGTTTTTATGTCTCGTGTCAAAAAAAAAAAAAAAAAAGAAAAAAAAA

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FIGURE 5874

MNKKKKPFLGMPAPLGYVPWLGRGATGFTTTRSDIGPARDANDPVDDRHAPPGKRTVGDQMKNQAADDDDEDLND
TNYDEFNGYAGSLFSSGPYEKDDEEADAIYAALDKRMDERRKERREQREKEEIEKYRMERPKIQQQFSDLKRKLA
EVTEEEWLSIPEVGDARNKRQRNPRYEKLTVPVDSFFAKHLQTGENHTSVDPRQTQFGGLNTPYPGGLNTPYRGG
MTPGLMTPGTGELDMRKIGQARNTLMDMRLSQVSDSVSGQTVVDPKGYLTDLNSMIPTHGGDINDIKKARLLLKS
VRETNPHHPPAWIASARLEEVTKLQVARNLIMKGTEMCPKSEDEVWLEAARLQPGDTAKAVVAQAVRHLPOQSVRI
YIRAAELETDIRAKKRVLRKALEHVPNSVRLWKAAVELEEPEDARIMLSRAVECCPTSVELWLALARLETYENAR
KVLNKARENIPTDRHIWITAAKLEEANGNTQMVEKIIDRAITSLRANGVEINREQWIQDAEECDRAGSVATCQAV
MRAVIGIGIEEEDRKHTWMEDADSCVAHNALECARAIYAYALQVFPSKKS VWLRAAYFEKNHGTRESLEALLQRA
VAHCPKAEVLWLMGAKSKWLAGDVPAARSILALAFQANPNSEEIWLA AVKLESENDEYERARRLLAKARSSAPTA
RVFMKSVKLEWVQDNIRAAQDLCEEALRHYEDFPKLWMMKGQIEEQKEMMEKAREAYNQGLKKCPHSTPLWLLLS
RLEEKIGQLTRARAILEKSRLKNPKNPGLWLESVRLEYRAGLKNIANITLMAKALQECPN SGILWSEAFLEARPQ
RRTKSVDALKKCEHDPHVLLAVAKLFW SQRKITKAREWFHRTVKIDSDLGDAWAFFYKFELQHGT EEQQEEVRKR
CESAEPRHGELWCAVSKDIANWQKKIGDILRLVAGRIKNTF

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FIGURE 5875

AAGTCCCGCCCCCTGGCTTTGGGGAAGTGCCGCCGAGGCGCCTGCGCACTGCGCCCCGCGCCCCCTCCCCGACT
GTCGGGCGCGACCTTGGAGCGCGCGGGCCGGCGGGCGCGAGTGGCTCGGGAGCGCGGCTGACCCCCAGGCTGT
GGTGAGGGTCTGAGAGCTGGTACCACGGAGCCTGGGCAACCTCCTCCGCCCACCCATGCCACCCCGCATGAGGC
TGAGAAGCAGATCACAGGGCCAGAGGAGGCGGACCGGCCCCCTTCAATGTCCAGTCATGATACAGCCTCTCCAGC
GGCCCCCAGCGCAACCCCTGCTGCCTGTGCTGGTGTGCTGCTGTAGCTGCTCCTGGAACCAAGAGCGGCGGCG
CGCGTGGCAGGCCTCCCGGAGAGCAAGCTGCAGCCCCCTCCCCAGCTGTGAAGTATGTGCCACGCCAAGTCCTGA
GGAGGTGCAGAGCTGGGCGCAGTCTTTTGACAAGCTGATGCACAGCCCAGCGGGACGCAGCGTGTTCGGGGCGTT
CCTGCGGACAGAGTACAGCGAGGAGAACATGCTCTTCTGGTTGGCCTGCGAGGAGCTGAAGGCCGAGGCCAACCA
GCATGTGGTAGACGAGAAGGCGAGGCTCATCTACGAGGACTACGTATCCATCCTGTCCCCCAAGGAGGTGAGCCT
GGACTCCCGTGTGCGGGAGGGCATCAACAAGAAGATGCAGGAGCCGTCCGCACACACGTTTCGACGACGCGCAGCT
GCAGATCTACAGCTCATGCACCGGGACTCCTACCCCCGCTTCCTCAGCTCTCCACCTACCGTGCCCTGCTGCT
GCAGGGGCCATCACAGTCCTCCTCCGAGGCCTAGGCCGCCCCCAGCAGCACAGACCCCGCCGCCTCCTACGGCCG
ACTCTGGGTTCCTTCAGGTGTTGTTGTGTCGGCAGGGCTGTGAGGGCACATGCCTGGCCGGCTGGGGTCCCCACCC
GCGGAGACGGTCCTAGACCCAGTGGGGAGTGCTGTGTCTCCTGGGTCTGCCACCCGTGGCCAAGCAGGAACCTCC
AGGTGCAGGGCGGGCCTCCAGGTGCAGGGCGGGCCAGAAGCCCCCTCATCGGCCCGCAGCTGGCTGGCCAGTGC
TCCTGGCTGGGGGCTCTTGCGTGGTGAGAGTAGGGGTCCCCCAGGAGCCATGCTGGACCCATGAGCCTCGCTGG
GGCCTCCTCCCCAGGCAGCCAATGGGCCCCAGACAAGCCTTTGGTGGGGAACAGAACCTCCGCATCGTGTAGTTT
TGTGACATAAGGAGACCTCCTACTTGAGCTGTCTGTACCCCAAGATCAAACACAGAACCTCAGAACCAGATTAG
GACCTCAGAATCCTGCACCTCAAGGTGGCAGGACCCAATTTCTGTTTTATATGTTTCATGAACTTTAAACCTGGAAA
CATGTCCTTACTAGGTGTTTTATCAAAAAAAGTTTTATATTTATCTCTATCCCTAACCCCCCAAAAATAGGAT
GTCTTATTATTGAAGATATTTTTAAAGC

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FIGURE 5876

GGAAAACCGTGTACTATTAGCCATGGTCAACCCACCGTGTTCTTCGACATTGCCGTCGACGGCGAGCCCTTGGG
CCGCGTCTCCTTTGAGCTGTTTGCAGACAAGGTCCCAAAGACAGCAGGCTTTCACAGAATTATTCCAGGGTTTAT
GTGTCAGGGTGGTGA CTTCACACGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAAGATGA
GAACTTCATCCTAAAGCATAACAGGTCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGATCCCA
GTTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCAAGCATGTGGTGTTTGGCAAAGTGAAAGAAGGCAT
GAATATTGTGGAGGCCATGGAGCGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTG
TGGACAACCTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGGTCATTCCCTTCTGTAGCTCAGGAGAGCAC
CCCTCCACCCCATTTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCCTTTGGGTTCCATGTTTT
CCTTGTTCCCTCCCATGCCTAGCTGGAT

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FIGURE 5877

GCTCGATGGTCGAGGCCATCTCCTGGTCCGCCTGGCGGCCATCGTGGCTAAACAGAACAAGTTGAAGTACCTGGG
TTTCCTCCGCAAGCGGATGAACACCCACCTTTCCCGAGGTCCCTACCACTTCCGGGCCCCCAGCCGCATCTTCT
GGCGGACCGTGCGAGGTATGCCGCCCCACAAGACCAAGCGAGGCCAGGCTTCTCTGGACCGCCTCAAGGTGTTTG
ACCGCATCCCACCGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCT
ACAAGAAAGTTTGCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTG
GAGGAGAAGAGGAAAGAGAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCC
GAGAAGAACATGGAGAAGAAAATTGACAAATACACAGAGGTCTCAAGACCCACAGACTCCTGGTCTGAGCCCAA
TAAAGACTGTTAATTCCT

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FIGURE 5878

GCATCCCAACGCCCTACGACAAGAAAAAGCGGATGGTGTTCCTGCTCCCTCAAGGTTGTGCGTCTGAAGCCTACA
AGAAAAGTTTGCCTATCTGGGGCGCCTGGCTCACGAGGTTGGCTGGAAGTACCAGGCAGTGACAGCCACCCTGGAG
GAGAAGAGGAAAGAGAAAAGCCAAGATCCACTACCGGAAGAAGAAACAGCTCATGAGGCTACGGAAACAGGCCGAG
AAGAACATGGAGAAGAAATGAGCCCAATAAAGACTGTTAATTCCTCATGCGTGGCCTGCCCTTCCTCCATCGTCG
CCCTGGAATGTACGGGACCCAGGGGCAGCAGCAGTCCAGGCGCCACAGGCAGCCTCGGACACAGGAAGCTGGGAG
CAAGGAAAGGGTCTTAGTCACTGCCTCCCGAAGTTGCTTGAAAGCACTCGGAGAACTGTGCAGGTGTCATTTATC
TATGACCAATAGGAAGAGCAACCAGTTACTATTAGTGAAAGGGAGCCAGAAGACTGATTGGAGGGCCCTATCTTG
TGAGCGGGGCGTCTGTTGGACTTTCCACCTGGTCATATACTCTGCAGCTGTTAGAATGTGCAAGGACTTGGGGAC
AGTATGAGCTTGCTGTTGTACACAGGGTATTTCTAGAAGCAGAAATAGACTGGGAAGATGCACAACCAAGGGGTT
ACAGGCATCGCCCGTGCTCACCTGTATTTTGTAAATCAGAAATAAATTGCTTTTAAAGAAAAAATAAAA

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FIGURE 5879

ACGAGGGGAAGAAAGGAGTTGGGGCAAACAGGAGGCGTTTCCTACCCGCATACATCCCCGTCCCCGAGACACC
CAATCCCCCACCACAGCCTGCCCGCGCCTCCCGCCCCAGCTCCTCGCCCTGGGGACAGCTGGCAGCCCCGCG
CGGACCAGACACAAAGCCGATCAATCCCGGAGGCGTGGGGGCGGAGGGACGACCCGCCGGGGCTTTCCCGGGCGC
TGCTCTCCTCCTGCTGCCCCCTCGCTAGGACCCGGCGGACGCTCGTCTGGTTTTACGCCCTCTAGCCCCCTACC
CCACACCCCCAAAACAGAACAGACCCCCATCCCTGGGCTGGAGGACCCGCCTCTTGGCAGCCAGCTGAGAAGGC
GCCCCGGGGAGGGGGAAACTGACATCCCATCTAGAGCCGTCCCTCCTCTTCCTCCCCTCCCGACTCTCTGCTCCT
TTCCCGCCCCAGAAGTTCAAGGGCCCCCGGCCTCCTGCGCTCCTGCCGCCGGGACCCCTCGACCTCCTCAGAGCAG
CCGGCTGCCGCCCGGGGAAGATGGCGAGGAGGAGCCGCCACCGCCTCCTCCTGCTGCTGCTGCGCTACCTGGTGG
TCGCCCTGGGCTATCATAAGGCCTATGGGTTTTCTGCCCAAAGACCAACAAGTAGTCACAGCAGTAGAGTACC
AAGAGGCTATTTTAGCCTGCAAAACCCCCAAGAAGACTGTTTCCTCCAGATTAGAGTGGAAGAACTGGGTGCGA
GTGTCTCCTTTGTCTACTATCAACAGACTCTTCAAGGTGATTTTAAAAATCGAGCTGAGATGATAGATTTCAATA
TCCGGATCAAAAATGTGACAAGAAGTGATGCGGGGAAATATCGTTGTGAAGTTAGTGCCCCATCTGAGCAAGGCC
AAAACTGGAAGAGGATACAGTCACTCTGGAAGTATTAGTGGCTCCAGCAGTTCCATCATGTGAAGTACCCCTCTT
CTGCTCTGAGTGGAAGTGTGGTAGAGCTACGATGTCAAGACAAAGAAGGGAATCCAGCTCCTGAATACACATGGT
TTAAGGATGGCATCCGTTTGCTAGAAAATCCCAGACTTGGCTCCCAAAGCACCACAGCTCATACACAATGAATA
CAAAAAGTGGAACTCTGCAATTTAATACTGTTTCCAACTGGACACTGGAGAATATTCCTGTGAAGCCCGCAATT
CTGTTGGATATCGCAGGTGTCCTGGGAAACGAATGCAAGTAGATGATCTCAACATAAGTGGCATCATAGCAGCCG
TAGTAGTTGTGGCCTTAGTGATTTCCGTTTGTGGCCTTGGTGTATGCTATGCTCAGAGGAAAGGCTACTTTTCAA
AAGAAACCTCCTTCCAGAAGAGTAATCTTCATCTAAAGCCACGACAATGAGTGAAAATGATTTCAAGCACACAA
AATCCTTTATAATTTAAAGACTCCACTTTAGAGATACACCAAGCCACCGTTGTTACACAAGTTATTAACTATT
ATAAACTCTGCTTTGTCGACATTTGCAAAGAGGTACACGAGGAAATGGAATTGGTATTTTCAATTTTAAATTTCA
TGACTACTAACTACCTGAAGTTGCTATTTTAAACAAATAGTTCTGTGACACCTAAAATATAATCTGGCTTCTT
GTGCTGGACTAAGTTAAAAGAATTAAAATACTTTGTAATGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5880

MARRSRHRLLLLLLLRYLVVALGYHKAYGFSAPKDQQVVTAVEYQEAILACKTPKKTVSSRLEWKKLGRSVSFVYY
QQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGQONLEEDTVTLEVLVAPAVPSCEVPSSALSGTV
VELRCQDKEGNPAPEYTWFKDGIRLLENPRLGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNSVGYRRC
PGKRMQVDDLNISGIIAAVVVVVALVISVCGLGVCYAQRKGYFSKETSFQKSNSSSKATTMSENFKHTKSFI I

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FIGURE 5881

AGTTTCCTCGGCAGCGGTAGGCGAGAGCACGCGGAGGAGCGTGC GCGGGGGCCCCGGGAGACGGCGGGCGGTGGCG
GCGCGGGCAGAGCAAGGACGCGGCGGATCCCCTCGCACAGCAGCGCACTCGGTGCCCGCGCAGGGTCGCGATG

CTGCCCCGTTTGGCACTGCTCCTGCTGGCCGCTGGACGGCTCGGGCGCTGGAGGTACCCACTGATGGTAATGCT
GGCCTGCTGGCTGAACCCAGATTGCCATGTTCTGTGGCAGACTGAACATGCACATGAATGTCCAGAATGGGAAG
TGGGATTCAGATCCATCAGGGACCAAAACCTGCATTGATACCAAGGAAGGCATCCTGCAGTATTGCCAAGAAGTC
TACCTGAAGTGCAGATCACCATGTGGTAGAAGCCAACCAACAGTGACCATCCAGAACTGGTGCAAGCGGGGC
CGCAAGCAGTGCAAGACCCATCCCCACTTTGTGATTCCCTACCGCTGCTTAGTTGGTGAGTTTGTAAGTGATGCC
CTTCTCGTTCTGACAAGTGCAAATTCCTTACACCAGGAGAGGATGGATGTTTGCGAACTCATCTTCACTGGCAC
ACCGTCGCCAAAGAGACATGCAGTGAGAAGAGTACCAACTTGCATGACTACGGCATGTTGCTGCCCTGCGGAATT
GACAAGTTCCGAGGGGTAGAGTTTGTGTGTTGCCACTGGCTGAAGAAAGTGACAATGTGGATTCTGCTGATGCG
GAGGAGGATGACTCGGATGCTGCTGGTGGGGCGGAGCAGACACAGACTATGCAGATGGGAGTGAAAGACAAAGTAGTA
GAAGTAGCAGAGGAGGAAGAAGTGGCTGAGGTGGAAGAAGAAGGCCGATGATGACGAGGACGATGAGGATGGT
GATGAGGTAGAGGAAGAGGCTGAGGAACCCCTACGAAGAAGCCACAGAGAGAACCACCAGCATTGCCACCACCACC
ACCACCACCACAGAGTCTGTGGAAGAGGTGGTTTCGAGAGGTGTGCTCTGAACAAGCCGAGACGGGGCCGTGCCGA
GCAATGATCTCCCCTGGTACTTTGATGTGACTGAAGGGAAGTGTGCCCATTCCTTTACGGCGGATGTGGCGGC
AACCAGAACTTTGACACAGAAGAGTACTGCATGGCCGTGTGTGGCAGCGCCATGTCCCAAAGTTTACTCAAG
ACTACCCAGGAACCTCTTGCCCGAGATCCTGTAACTTCTCTACAACAGCAGCCAGTACCCCTGATGCCGTTGAC
AAGTATCTCGAGACACCTGGGGATGAGAATGAACATGCCCATTTCCAGAAAGCCAAAGAGAGGCTTGAGGCCAAG
CACCGAGAGAGAATGTCCAGGTGATGAGAGAATGGGAAGAGGCAGAACGTCAAGCAAAGAACTTGCTAAAGCT
GATAAGAAGGCAGTTATCCAGCATTTCAGGAGAAAGTGGAATCTTTGGAACAGGAAGCAGCCAACGAGAGACAG
CAGCTGGTGGAGACACACATGGCCAGAGTGGAAGCCATGCTCAATGACCGCCGCCCTGGCCCTGGAGAAGTAC
ATCACCGCTCTGCAGGCTGTTCTCCTCGGCCTCGTCACGTGTTCAATATGCTAAAGAAGTATGTCCGCGCAGAA
CAGAAGGACAGACAGCACACCTAAAGCATTTCGAGCATGTGCGCATGGTGGATCCCAAGAAAGCCGCTCAGATC
CGGTCCCAGGTTATGACACACCTCCGTGTGATTTATGAGCGCATGAATCAGTCTCTCTCCCTGCTCTACAACGTG
CCTGCAGTGGCCGAGGAGATTGAGGATGAAGTTGATGAGCTGCTTCAGAAAGAGCAAACTATTTCAGATGACGTC
TTGGCCAACATGATTAGTGAACCAAGGATCAGTTACGGAAACGATGCTCTCATGCCATCTTTGACCGAAACGAAA
ACCACCGTGGAGCTCCTTCCCGTGAATGGAGAGTTGAGCCTGGACGATCTCCAGCCGTGGCATTCTTTGGGGCT
GACTCTGTGCCAGCCAACACAGAAAACGAAGTTGAGCCTGTTGATGCCCGCCCTGTGCGGACCGAGGACTGACC
ACTCGACAGGTTCTGGGTTGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGATGGATGCAGAATTCCGA
CATGACTCAGGATATGAAGTTCATCATCAAAAATTGGTGTCTTTGCGAGAAGATGTGGGTTCAAACAAAGGTGCA
ATCATTGGACTCATGGTGGGCGGTGTTGTATAGCGACAGTGATCGTCATCACCTTGGTGATGCTGAAGAAGAAA
CAGTACACATCCATTATCATGGTGTGGTGGAGGTTGACGCCGTGTACCCAGAGGAGCGCCACCTGTCCAAG
ATGCAGCAGAACGGCTACGAAAATCCAACCTACAAGTTCTTTGAGCAGATGCAGAACTAGACCCCGCCACAGCA
GCCTCTGAAGTTGGACAGCAAAACCATTTGCTTCACTACCCATCGGTGTCCATTTATAGAATAATGTGGGAAGAAA
CAAACCGTTTTATGATTTACTCATTATCGCCTTTTGACAGCTGTGCTGTAACACAAGTAGATGCCTGAACCTGA
ATTAATCCACACATCAGTAATGTATTCTATCTCTTTTACATTTTGGTCTCTATACTACATTATTAATGGGTTTT
GTGTACTGTAAAGAATTTAGCTGTATCAAACTAGTGCATGAATAGATTCTCTCCTGATTATTTATCACATAGCCC
CTTAGCCAGTTGTATATTATTTGTGGTTTGTGACCCAATTAAGTCTACTTTACATATGCTTTAAGAATCGAT
GGGGGATGCTTCATGTGAACGTGGGAGTTGAGCTGCTTCTCTGCTAAGTATTCCTTTCTGATCACTATGCAT
TTTAAAGTTAAACATTTTAAAGTATTTAGATGCTTTAGAGAGATTTTTTCCATGACTGCATTTTACTGTACA
GATTGCTGCTTCTGCTATATTTGTGATATAGGAATTAAGAGGATACACAGTTGTTTCTTCGTGCCTGTTTTAT
GTGCACACATTAGGCATTGAGACTTCAAGCTTTTCTTTTTTGTCCACGTATCTTTGGGTCTTTGATAAAGAAAA
GAATCCCTGTTTCAATTGTAAGCACTTTTACGGGGCGGGTGGGGAGGGTGCTCTGCTGGTCTTCAATTACCAAGAA
TTCTCCAAAACAATTTTCTGCAGGATGATTGTACAGAATCATGCTTATGACATGATCGCTTTCTACACTGTATT
ACATAAATAAATAAATAAATAAACCCTGGGCAAGACTTTTCTTTGAAGGATGACTACAGACATTAAATAATCGA
AGTAATTTTGGGTGGGGAGAAGAGGCAGATTCAATTTCTTTAACCAGTGAAGTTTCATTTATGATACAAAAG
AAGATGAAAATGGAAGTGGCAATATAAGGGGATGAGGAAGGCATGCCTGGACAAACCCCTCTTTTAAAGATGTGTC
TTCAATTTGTATAAATGGTGTTTTTCATGTAAATAAATACATTCTTGAGGAGC

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FIGURE 5882

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRNLNMHNMNVQNGKWSDPSGKTCIDTKEGILQYCQE
VYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHW
HTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEDDSDVWVGADTDYADGSEDKV
VEVAEEEEVAEVEEEEEADDDDEDEDGDEVEEEEEEPYEEATERTTTSIATTTTTTTTSESVEEVVREVCSEQAETGPC
RAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVCGSAMSQSLLKTTQEPLARDPVKLPPTAASTPDAV
DKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAEERQAKNLPKADKKAVIQHFQEKVESLEQEAAER
QQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQ
IRSQVMTHLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKEQNYSDDVLANMISEPRI SYGNDALMPSLTET
KTTVELLPVNGEFLDDLPWHSFGADSV PANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEF
RHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHGVEVDAAVTPEERHLS
KMQQNGYENPTYKFFEQMQN

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FIGURE 5883

GCATGCTTTTTTTTTTCCGGTAGGTCGCCAGCTGAGGCGGTTTGTAAGTTTTGGGTGCGCAGTATGCTAGAATT
TTGAGGCTCCCTTCTGATGAAAATTGAGCTGTCCATGCAGCCATGGAACCCGGGTACAGCAGTGAGGGGGCCAC
GGCTCAAGAACTTACACATGTCCAAAAATGATTGAGATGGAGCAGGCGGAGGCCAGCTTGCTGAGTTAGACCT
GCTAGCCAGTATGTTCCCTGGTGAGAATGAGCTCATAGTGAATGACCAGCTGGCTGTAGCAGAACTGAAAGATTG
TATTGAAAAGAAGACAATGGAGGGGCGATCTTCAAAAGTCTACTTTACTATCAATATGAACCTGGATGTATCTGA
CGAAAAAATGGCGATGTTTTCTCTGGCCTGTATTCTTCCCTTTAAATACCCGGCAGTTCTGCCTGAAATTACTGT
CAGATCAGTATTATTGAGTAGATCCCAGCAGACTCAGCTGAACACAGATCTGACTGCATTCCCTGCAAAAACATTG
TCATGGAGATGTTTGTATACTGAATGCCACAGAGTGGGTTAGAGAACACGCCTCTGGCTATGTCAGCAGAGATAC
TTCATCTTCACCCACCACAGGAAGCACAGTCCAGTCAGTTGACCTCATCTTACAGAGACTCTGGATCTACAGCCA
TCATATCTATAACAAATGCAAAAGAAAGAATATTCTAGAGTGGGCAAAGGAGCTTTCCCTGTCTGGGTTTAGCAT
GCCTGGAAAACCTGGTGTGTTTGTGTGGAAGGCCACAAAGTGCCTGTGAAGAATTCTGGTCAAGACTCAGAAA
ATTAAGCTGGAAGAGAATTTTAATTCGCCATCGAGAAGACATTCCTTTTGATGGTACAAATGATGAAACGGAAAG
ACAAAGGAAATTTTCATTTTGAAGAAAAAGTGTTCAAGTGAATGGAGCCAGGGGAAACCACATGGACTTTGG
TCAGCTCTATCAGTTCTTAAACACCAAAGGATGTGGGGATGTTTCCAGATGTTCTTTGGTGTAGAAGGACAATG
ACATCAAGAGTAGTTGAAAGTATCTTGCCACTGTTGGCCTTTTGATTTTTTTTCCCACTTTTCTTGAAAGATT
AAGTAATTTTATTTTAGTTCCATTCTAGAATGTTGGGGAGTGGGGCACAAGAAAAAATAGTATAGCTGAAATGCA
TCTGTTAAAAATGTCATGATTGAAAGCAGAACTGAGTTCAAATTACAACCTTAAAATTGTTGTTAGATATTTCT
TCACATATCAGCTGCCCATTTTGAAGAAAGAAATATCCATAAAGGTAATGTTGGTGTCTCAATTTGCCAGCCATT
CCCAACCCCTTCTCCCTTACCTGCCTTCACTAAAGAACCCAGAAAAGCTAATTGCTCCCCTTTCAGCCTCTGTT
GCAACTAACAACCTCTCAGTGGCTCAGGACACAGCTTTGGCCTTGGGAATTCTGGGAAAACCTTTACTTCTGAT
TAAAGATACATATGCAGCTAGGCCACCTCCTCCCCCTTACTGCCATAAACACCAAAGTGATGACTGGAGCTGG
AGGAGTTATTTGAACCACGACGGAAGGGCCAAGAGAGCCACGAAGATGCCAGTTGCCACATTGTTGAGCTGCTGA
CCCAACACCAGCCATTGCCTGTCTCTAAACATCTTATGAAATAAAACCAGTTTTGTTTAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 5884

MKIELSMQPWNPGYSSEGATAQETYTCPKMIEMEQAQAQLAELDLLASMFPGENELIVNDQLAVAEKDCIEKKT
MEGRSSKVYFTINMNLVDSDEKMAMFSLACILPFKYPVLPEITVRSVLLSRSQQTQLNTDLTAFLQKHCHGDVC
ILNATEWVREHASGYVSRDTSSSPTTGSTVQSVDLIFTRLWIYSHHIYNKCKRKNILEWAKELSLSGFSMPGKPG
VVCVEGPQSACEEFWSRLRKLNWKRILIRHREDIPFDGTNDETERQRKFSIFEKVFVNGARGNHMDFGQLYQF
LNTKGCGDVFQMFFGVEGQ

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FIGURE 5885

CGCGTGAAGTCTTCCTGCAGGCTGGCCATGCGCGCTTCACGTTCCCAAGGCTCCGGGCTTTGCCAGATGCTCAA
GGAGGGAGCGAAACACTTTTCAGGATTAGAAGAGGCTGTGTATAGAAACATACAAGCTTGCAAGGAGCTTGCCCA
AACCACCTCGTACAGCATATGGACCAAAAGGAATGAACAAAATGGTTATCAACCACTTGGAGAAGTTGTTTGTGAC
AAACGATGCAGCAACTATTTTAAGAGAACTAGAAGTACAGCATCCTGCTGCAAAAATGATTGTAATGGCTTCTCA
TATGCAAGAGCAAGAAGTTGGAGATGGCACAAACTTTGTTCTGGTATTTGCTGGAGCTCTCCTGGAATTAGCTGA
AGAACTTCTGAGGATTGGCCTGTCAGTTTCAGAGGTCATAGAAGGTTATGAAATAGCCTGCAGAAAAGCTCATGA
GATTCTTCTTAATTGGTATGTTGTTCTGCAAAAACCTTCGAGATATTGATGAAGTCTCATCTCTACTTCGTAC
CTCCATAATGAGTAAACAATATGGTAATGAAGTATTTCTGGCCAAGCTTATTGCTCAGGCATGCGTATCTATTTT
TCCTGATTCCGGCCATTTCAATGTTGATAACATCAGAGTTTGTAATAATTCTGGGCTCTGGTATCAGTTCTCTTC
AGTATTGCATGGCATGGTTTTTAAGAAGGAAACCGAAGGTGATGTAACATCTGTCAAAGATGCAAAAATAGCAGT
GTACTCTTGTCTTTTGATGGCATGATAACAGAACTAAGGGAACAGTGTTGATAAAGACTGCTGAAGAATTGAT
GAATTTTAGTAAGGGAGAAGAAAACCTCATGGATGCACAAGTCAAAGCTATTGCTGATACTGGTGCAAATGTCGT
AGTAACAGGTGGCAAAGTGGCAGACATGGCTCTTCATTATGCAAATAAATATAATATCATGTTAGTGAGGCTAAA
CTCAAAATGGGATCTCCGAAGACTTTGTAAACTGTGGTGCTACAGCTCTTCCTAGATTGACACCTCCTGTCTCT
TGAAGAAATGGGACACTGTGACAGTGTTTACCTCTCAGAAGTTGGAGATACTCAGGTGGTGGTTTTTAAGCATGA
AAAGGAAGATGGCGCCATTTCTACCATAGTACTTCGAGGCTCTACAGACAATCTGATGGATGACATAGAAAGGT
AGTAGACGATGGTGTAAATACTTTCAAAGTTCTTACAAGGGATAAACGTCTTGTACCCGGAGGTGGAGCAACAGA
AATTGAATTAGCCAAACAGATCACATCATATGGAGAGACATGTCCTGGACTTGAACAGTATGCTATTAAGAAGTT
TGCTGAGGCATTTGAAGCTATTCCCCGCGCACTGGCAGAAAACCTCTGGAGTTAAGGCCAATGAAGTAATCTCTAA
ACTTTATGCAGTACATCAAGAAGGAAATAAAAACGTGGATTAGATATTGAGGCTGAAGTCCCTGCTGTAAAGGA
CATGCTGGAAGCTGGTATTCTAGATACTTACCTGGGAAAATATTGGGCTATCAAACCTCGCTACTAATGCTGCAGT
CACTGTACTTAGAGTGGATCAGATCATCATGGCAAAACAGCTGGTGGGCCCAAGCCTCCAAGTGGGAAGAAAGA
CTGGGATGATGACCAAAATGATGGAATTGGCTTAATTTTTACTGTAGGTGAAGGCTGTATTTGTAGTAGTACTC
AAGAATCACCTGATGTTTTCTTATTCTCTTAAATTAAGAGTTATTTGTGTTTGTATTCTTGGCTGGATGTTAT
AATAACATATTGTTACTGTC

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FIGURE 5886

MALHVPKAPGFAQMLKEGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPKGMNKMVINHLEKLFVTNDAATILRE
LEVQHPPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEE LLRIGLSVSEVIEGYEIA CRKAHEILPNLVCCS
AKNLRDIDEVSSLLRTSIMSKQYGNVFLAKLIAQACVSIFPD SGHFNVDNIRVCKILGSGISSSSVLHGMVFKK
ETEGDVTSVKDAKIAVYSCPF DGMITETKGTVLIKTAEELMNF SKGEENLMDAQVKAIADTGANVVVTGGKVADM
ALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPRLTPPVLEEMGHCD SVYLSEVGDTQVVVFKEKEDGAISTI
VLRGSTDNLMDDIERVVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAI PR
ALAENSGVKANEVISKLYAVHQEGNKNVGLDIEAEVPAVKDMLEAGILD TYLGKYWAIKLATNAAVTVLRVDQII
MAKPAGGPKPPSGKKDWDDQND

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FIGURE 5887

CCCTGAGGCTTTTCGGAGCGAGCTCCTCAAATCGCATCCAGATTTTCGGGTCCGAGGGAAGGAGGACCCTGCGAA
AGCTGCGACGACTATCTTCCCCTGGGGCCATGGAAGTCTGGACGCCAGCCTGGTGTCCAGCCGCCGTCGTGCGCCAG
AGCCCGATGACCTTTTCTGCCGGCCCGGAGTAAGGGCAGCAGCGGCAGCGCCTTCACTGGGGGCACCGTGTCTCT
CGTCCACCCCGAGTGACTGCCC GCCGGAGCTGAGCGCCGAGCTGCGCGGCGCTATGGGCTCTGCGGGCGCGCATC
CTGGGGACAAGCTAGGAGGCGAGTGGCTTCAAGTCGTCTCTGTCAGCACCTCGTCTCTACGTCTGTCGGCGGCTG
CGTCGTCCACCAAGAAGGACAAGAAGCAAATGACAGAGCCGGAGCTGCAGCAGCTGCGTCTCAAGATCAACAGCC
GCGAGCGCAAGCGCATGCACGACCTCAACATCGCCATGGATGGCTCCGCGAGGTTCATGCCGTACGCACACGGCC
CTTCGGGTGCGCAAGCTTTCCAAGATCGCCACGCTGCTGCTGGCGCGCAACTACATCCTCATGCTACCAACTCGC
TGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGGCCACCACGCTGGCTTCCACCCGTCGGCTGCGGGC
GCCTGGCGCACTCCGCGCCCCCTGCCCGCCGCCACCGCGCACCCGGCAGCAGCAGCGCACGCCGCACATCACCCCG
CGGTGCACCAACCCCATCCTGCCGCCCCGCCCGCAGCGGCTGCTGCCGCCGCTGCAGCCGCGGCTGTGTCCAGCG
CCTCTCTGCCCGGATCCGGGCTGCCGTGCGTTCGGCTCCATCCGTCCACCGCACGGCCTACTCAAGTCTCCGTCTG
CTGCCCGCGGCCGCCCGCTGGGGGGCGGGGGCGGGCGGAGTGGGGCGAGCGGGGGCTTCCAGCACTGGGGCGGCA
TGCCCTGCCCCCTGCAGCATGTGCCAGGTGCCGCCGCCGCCACCCACGCTGTGCGGTATGGGCGCCGGCAGCCTGC
CGCGCCTCACCTCCGACGCCAAGTGAAGCCGACTGGCGCCGGCGCGTTCGTGGCGACAGGGGAGCCAGGGGCCGCGG
GGAAGCGAGGACTGGCCTGCGCTGGGCTCGGGAGCTCTGTGCGGAGGAGGGGCGCAGGACCATGGACTGGGGGTG
GGGCATGGTGGGGATTCCAGCATCTGCGAACCCAAGCAATGGGGGGCGCCACAGAGCAGTGGGGAGTGAGGGGAT
GTTCTCTCCGGGACCTGATCGAGCGCTGTCTGGCTTTAACCTGAGCTGGTCCAGTAGACATCGTTTATGAAAAG
GTACCGCTGTGTGCATTCTCTACTAGAACTCATCCGACCCCGACCACCACCTCCGGGAAAAGATTCTAAAAACT
TCTTTCCCTGAGAGCGTGGCCTGACTTGCAGACTCGGCTTGGGCAGCACTTCGGGGGGGGAGGGGGTGTATGGG
AGGGGGACACATTGGGGCCTTGCTCCTCTTCTCCTTTCTTGGCGGGTGGGAGACTCCGGGTAGCCGCACTGCAG
AAGCAACAGCCCGACCGCGCCCTCCAGGGTGCCTCCCTGGCCCAAGGCCAGGGGCCACAAGTTAGTTGGAAGCCGG
CGTTCGGTATCAGAAGCGCTGATGGTCATATCCAATCTCAATATCTGGGTCAATCCACACCCCTCTAGAACTGTG
GCCGTTCTCCTCCCTGTCTCTCGTTGATTTGGGAGAATATGGTTTTCTAATAAATCTGTGGATGTTCTTCTTCAAC
AGTATGAGCAAGTTTATAGACATTAGAGTAGAACCCTTGTGGATTGGAATAACCCAAAAGTCCCGATTTTCAAG
GGCGGGTGCAATTGTAGTTATTATTTTAAAATAGAACTACCCACCGACTCATCTTCTTCTCTAAGCACAAAG
TGATTTGGTTATTTTGGTACCTGAGAACGTAACAGAATTAAGGAGTGTGCTGTGGAACAGTTTGGGTATTTT
GGGGGTCTGTTGGCTTTTTTAAAATTTTCTTTTTTGGATGTGTAAATTTATCAATGATGAGGTAAGTGCAGCAATG
CTAAGCTGTTTGTCTACGTGACTGCCAGCCCCATCGGAGTCTAAGCCGGCTTCTCTATTTTGGTTTATTTTGG
CCACGTTTAAACACAAATGGTAACTCCTCCACGTGCTTCTGCGTTCCGTGCAAGCCGCCCTCGCGCTGCCTGCG
TTGCAAACTGGGCTTTGTAGCGTCTGCCGTGTAACACCCTTCTCTGATCGCACCGCCCTCGCAGAGAGTGTAT
CATCTGTTTTATTTTGTAAAAACAAAGTGCTAAATAATATTTATTACTTGTTTGGTTGCAAAAACGAATAAAT
GACTGAGTGTGAGATTTTAAATAAAATTTAAAGT

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FIGURE 5888

MDSDASLVSSRPSSPEPDDLFLPARSKGSSGSAFTGGTVSSSTPSCPPPELSAELRGAMGSAGAHPGDKLGGSGF
KSSSSSTSSSTSSAAASSTKKDKKQMTPELQQLRLKINSRERKRMHDLNIAMDGLREVMPYAHGPSVRKLSKIA
TLLLLARNYILMLTNSLEEMKRLVSEIYGGHHAGFHPSACGGLAHSAPLPAATAHPAAAAHAAHHPAVHHPILPPA
AAAAAAAAAAAAVSSASLPGSGLPSVGSIRPPHGLLKSPSAAAAAPLGGGGGGSGASGGFQHWGGMPCPCSMCQV
PPPHHVVSAMGAGSLPRLTSDAK

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FIGURE 5889

CCGGAAGCCGCCGCGGACAAGCTCTCCCGGGCGCGGGCGGGGGTTCGTGTGCTTGGAGGAAGCCGCGGAACCCCCA
GCGTCCGTCCATGGCGTGGAGCCTTGGGAGCTGGCTGGGTGGCTGCCTGCTGGTGTGAGCATTGGGAATGGTACC
ACCTCCCGAAAAATGTCAGAATGAATTCTGTAAATTTCAAGAACATTCTACAGTGGGAGTCACCTGCTTTTGCCAA
AGGGAACCTGACTTTTACAGCTCAGTACCTAAGTTATAGGATATTCCAAGATAAATGCATGAATACTACCTTGAC
GGAATGTGATTCTCAAGTCTTTCCAAGTATGGTGACCACACCTTGAGAGTCAGGGCTGAATTTGCAGATGAGCA
TTCAGACTGGGTAAACATCACCTTCTGTCTGTGGATGACACCATTATTGGACCCCTGGAATGCAAGTAGAAGT
ACTTGCTGATTCTTTACATATGCGTTTCTTAGCCCCATAAATTGAGAATGAATACGAACTTGGACTATGAAGAA
TGTGTATAACTCATGGACTTATAATGTGCAATACTGGAAAAACGGTACTGATGAAAAGTTTCAAATTACTCCCCA
GTATGACTTTGAGGTCTCAGAAACCTGGAGCCATGGACAACCTTATTGTGTTCAAGTTCGAGGGTTTCTTCCTGA
TCGGAACAAAGCTGGGGAATGGAGTGAGCCTGTCTGTGAGCAAAACAACCCATGACGAAACGGTCCCCCTCTGGAT
GGTGGCCGTCATCCTCATGGCCTCGGTCTTCATGGTCTGCCTGGCACTCCTCGGCTGCTTCGCCTTGCTGTGGTG
CGTTTACAAGAAGACAAAGTACGCCTTCTCCCTAGGAATTCTCTTCCACAGCACCTGAAAGAGTTTTTGGGCCA
TCTCATCATAACACACTTCTGTTTTTCTCCTTTCCATTGTGCGATGAGAATGATGTTTTTGACAAGCTAAGTGT
CATTGCAGAAGACTCTGAGAGCGGCAAGCAGAATCCTGGTGACAGCTGCAGCCTCGGGACCCCGCTGGGCAGGG
GCCCCAAAGCTAGGCTCTGAGAAGGAAACACACTCGGCTGGGCACAGTGACGTACTCCATCTCACATCTGCCTCA
GTGAGGGATCAGGGCAGCAACAAGGGCCAAGACCATCTGAGCCAGCCCCACATCTAGAACTCCCAGACCCTGGA
CTTAGCCACCAGAGAGCTACATTTTAAAGGCTGTCTTGGCAAAAATACTCCATTTGGGAACCTACTGCCTTATAA
AGGCTTTTCATGATGTTTTTCAGAAGTTGGCCACTGAGAGTGTAATTTTCAGCCTTTTATATCACTAAAAATAAGATC
ATGTTTTAATTGTGAGAAACAGGGCCGAGCACAGTGGCTCACGCCTGTAATACCAGCACCTTAGAGGTCGAGGCA
GGCGGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAATATGGTGAAACCCAGTCTCTACTAAAAATACA
AAAATTAGCTAGGCATGATGGCGCATGCCTATAATCCAGCTACTCGAGTGCTGAGGCAGGAGAATTGCATGAA
CCCGGGAGGAGGAGGAGGAGGTTGCAGTGAGCCGAGATAGCGGCACTGCACTCCAGCCTGGGTGACAAAGTGAGA
CTCCATCTCAAAAAAAAAAAAAAAAAAAAAATTGTGAGAAACAGAAATACTTAAATGAGGAATAAGAATGGAGATG
TTACATCTGGTAGATGTAACATTCTACCAGATTATGGATGGACTGATCTGAAAATCGACCTCAACTCAAGGGTGG
TCAGCTCAATGCTACACAGAGCACGGACTTTTGGATTCTTTGCAGTACTTTGAATTTATTTTCTACCTATATAT
GTTTTATATGCTGCTGGTGCTCCATTAAAGTTTTACTCTGTGTTGC

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[illegible]

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FIGURE 5891

MALSVPGYSPGFRKPPEVVRLRRKRARSRGAAASPPRELTEPAARRAALVAGLPLRPFPAAAGGRGGGSGGGPAAA
RRNPFARLDNRPRVAAEPPDGPAREQPEAPVPFLDSNQENDLLWEEKFPERTTVTELPQTSHVSFSEPDIPSSKS
TELPVDWSIKTRLLFTSSQPFTWADHLKAQEEAQGLVQHCRATEVTLPKSIQDPKLSSELRCTFQQSLIYWLHPA
LSWLPLFPRIGADRKMAKGTSPWSNDATLQHVLMSDWSVSFTSLYNLLKTKLCPYFYVCTYQFTVLFRAAGLAGS
DLITALISPTTRGLREAMRNEGIEFSLPLIKESGHKKETASGTS LGYGEEQAISDEDEEESFSWLEEMGVQDKIK
KPDILSIKLRKEKHEVQMDHRPESVVLVKGINFTLLNFLINSKSLVATSGPQAGLPPTLLSPVAFRGATMQMLK
ARSVNVKTQALSGYRDQFSLEITGPIMPHSLHSLTMLLKSSQSGSFSAVLYPHEPTAVFNICLQMDKVLDMEVVH
KELTNCGLHPNTLEQLSQIPLLKSSLRNVVLRDYIYNWRS

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FIGURE 5892

AAGCTTGGCACGAGGCCTACAACCGCCCGGGAGAAGATGGCTGCCCCAGCAGTGTCCGGGCTCTCCCGGCAGGTG
CGATGCTTCAGTACCTCTGTGGTCAGACCATTGCCAAGCTTGTGAGGCCTCCTGTTTCAGGTATACGGTATTGAA
GGTCGCTATGCCACAGCTCTTTATTCTGCTGCATCAAAACAGAATAAGCTGGAGCAAGTAGAAAAGGAGTTGTTG
AGAGTAGCACAAATCCTGAAGGAACCCAAAGTGGCTGCTTCTGTTTTGAATCCCTATGTGAAGCGTTCCATTAAA
GTGAAAAGCCTAAATGACATCACAGCAAAAGAGAGGTTCTCTCCCTCACTACCAACCTGATCAATTTGCTTGCT
GAAAATGGTCGATTAAGCAATACCCAAGGAGTCGTTTCTGCCTTTTCTACCATGATGAGTGCCATCGCGGAGAG
GTACCTTGACACAGTGACCTCTGCATCTCCTTTAGAAGAAGCCACACTCTCTGAATTAAAACTGTCCTCAAGAGC
TTCCTAAGTCAAGGCCAAGTATTGAAATTGGAGGCTAAGACTGATCCGTCAATCTTGGGTGGAATGATTGTGCGC
ATTGGCGAGAAATATGTTGACATGTCTGTCAAGACCAAGATTGAGAAGCTGGGCAGGGCTATGCGGGAGATTGTC
TAAAAGTGTGGTTTTCTGCCATCAGTGAAAATTCTTAACTTGGAGCAACAATAAAAAGCTTCCAGAACAGATC
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 5893

MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVA
ASVLNPYVKRSIKVKSNDITAKERFSPLTTNLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLE
EATLSELKTVLKSFLSQGQVLKLEAKTDP SILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV

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FIGURE 5894

CAGACTCGAGCAGTCTCTGGAACACGCTGCGGGGCTCCCGGGCCTGAGCCAGGTCTGTTCTCCACGCAGGTGTTCCGCGCGCCCCGTTTCAGCCATGTCGTCCGGCATCCATGTAGCGCTGGTGACTGGAGGCAACAAGGGCATCGGCTTGCCATCGTGC GCGACCTGTGCCGGCTGTTCTCGGGGGACGTGGTGCTCACGGCGCGGGACGTGACGCGGGGCCAGGCGGCCGTACAGCAGCTGCAGGCGGAGGGCCTGAGCCCGCGCTTCCACCAGCTGGACATCGACGATCTGCAGAGCATCCGCGCCCTGCGCGACTTCCTGCGCAAGGAGTACGGGGGCCTGGACGTGCTGGTCAACAACGCGGGCATCGCCTTCAAGGTTGCTGATCCACACCCCTTTCATATTCAAGCTGAAGTGACGATGAAAACAAATTTCTTTGGTACCCGAGATGTGTGCACAGAATTACTCCCTCTAATAAAACCCCAAGGGAGAGTGGTGAACGTATCTAGCATCATGAGCGTCAGAGCCCTTAAAGCTGCAGCCCAGAGCTGCAGCAGAAGTTCCGCAGTGAGACCATCACTGAGGAGGAGCTGGTG GGGCTCATGAACAAGTTTGTGGAGGATACAAAGAAGGGAGTGCAACAGAAAGGAGGGCTGGCCCAGCAGCGCATACGGGGTGACGAAGATTGGCGTCACCGTTCTGTCCAGGATCCACGCCAGGAACTGAGTGAGCAGAGGAAAGGGGAC AAGATCCTCCTGAATGCCTGCTGCCAGGGTGGGTGAGAACTGACATGGCGGGACCCAAGGCCACCAAGAGCCCA GAAGAAGGTGCAGAGACCCCTGTGTACTTGGCCCTTTTGCCCCAGATGCTGAGGGTCCCCATGGACAATTTGTTTCAGAGAAGAGAGTTGAACAGTGGTGAAGCTGGGCTCACAGCTCCATCCATGGGCCCCATTTTGTACCTTGTCTGAGTTGGTCCAAAGGGCATTTACAATGTCATAAATATCCTTATATAAGAAAAAAATGATCTCTTATCAATTAGCACTCACTAATGTACTACTAATTGAGCAACCTACGCACCTCAGTTGACTACGTAAATCTGTGTCAGGTCTTTTGTGATTT CCTCTGATGCAGGAGAGGAAAAATTGTAATTGATGAAAATAATGAATGAAAATCAACAGATGAATAAATGGTTCTTTATAAGTG

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FIGURE 5895

MSSGIHVALVTGGNKGIGLAIVRDLCLRFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRD
FLRKEYGGDLVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRAKSC
SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDKILLNA
CCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

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FIGURE 5896A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTTGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAATTGTGCCTGCT
AAGAAGAAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAAACATTTGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACCTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACTTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAGAAGAAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAAACTTTAGACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCCTCTAGCC
CTACTCCTTTGCCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGACAGCAACAGGAAGATGCTTTTTCTTCATTACAGCAAACACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACCATGGACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTTCGTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCGGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACAAATTCACGTGCTTCTGAGATAAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCCTAATAAATTAGGAT
CAATTGACAATTTGTTGGCCTATGTTAAGTATTTTCTTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTCCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTTGTTTTCTTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAAGAGAGCCACTATTCTGAAGAACACTTGGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAAACATAAAAGCTCAAAAACCTCTGTAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTCGAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAGAAGGAAAGAGATTTAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAAACAAAATCTCGAAACAATGAATCAGAAAAGTTTCAGTTCTAGTTCACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGGAGAAACAGTTTTCTAAATCTTCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGCAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACATG
TTTTGTCGTCTATGGACTTGCCATTTCTCTCCTTGGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAACC
AGTTTAAAGAGGATTATTGAACACTACCCAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGAAAAAGTGT
ATTTGAAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCTG
GAGTGTTAACTTGGCCACAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAATAAGATGCTGTGTAGAGA
AATTTGTTGAAGAATGCAAGTTCCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATAACTGATCCAGACTTTAAGGGTTTTATACGCATCAGCTGTTGCCAGTACTGTAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTCTACAAG

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FIGURE 5896B

GAATATGTCCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCTCAAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAACTGTAGACAATGTTT
AGCGTTGTGCTGCTTCTGATGACAGAATTCTACAGTGATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTTT
CTAGCAGAAATTTCTAAATGAAGCAGTGGACTATGTTATTTCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCAATGTTTTGAGTGAGCTTAAAGAAGTGGAGCCCAAATTAGCCGCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTTCTCGTTATGGAGCATCTCTTAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCAGCAT
TGCATAGTCTTTAGATGAATTTCTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCCTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGCTCGGAACAACCTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAAT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGGACATGAGTAACAAGATGTTCTCTGCAGAAATAG
AGTTTTTCCCGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTTAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTGTGATTGACAACTGTATTGCACTGAAGAAGGTTGCATCAGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAAAAACAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTCAGATTCTCTCAGCACCAGCTTTTGAAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTCTTGGAGGATGTGAACCAACTTATTGGGCTCAAT
CCCATTGGTGCAGGATACTGTACGTATCTTCTTTCCAGAGATTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGGTTTGCCCCAGTACACCAGCATATATACACCCTTGGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTGTAGCCAATGACAGAGCAGATAAAAAATGCTGCTGCCATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTCACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAAACATTCCACAG
TGCAGATGGTTGCCATACAGGTATCTTGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAATTAAAAAGGCACTTAG
AAGAAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTGGAAGAGAAATTAAGAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAATCACTGAAGAAGAAATTAAGAAATGGAAGAGGATTATGAAGAGAGTCATCAGA
TGATATCCAGAAAAATGATGGAAGAGAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAAATAGAAGAGTATATAAAGAAAGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAAGTGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTCATGGGAATTGTTTTCTTTCTAATGTTACAAAAGAAATTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAGAAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTCTGAGCTTTCTATTCTG
CCTGTAACACGGTTTCATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAACACAGCAGCACTTACAGGGATCCTAGTGTGTTCTCTGCTGGTGATTCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCCAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTCCCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 5896C

CTTATGAGCCCAGCTCTGCCACCCCGTGACCAGGTCTCTCCAGGGCTCACCCCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCGGCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACCTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCAATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAACCAACAAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCACTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAACTATATTTAATAATTTATAGTTAATGTTAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTATTATTTTATGTTCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCAGCCCCCGGTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAGAGAAGCTGTGTCTTTAGACAACCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAAAACCTGTAACCTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCACAT
GAAGGATCAAAAAATGTTTTCAATGTGTTCTTTGTTCCTGGAACCTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCCTGAGTTCCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAAAT
GAG

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FIGURE 5897

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTKLGSIDNCWPMLSIFFTYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEFSEKRFDAIIYYTRAIEYRPENLYLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDQALQANIKAQKLCNDPEGIKDLIQHVKLQKQIEDLQGRRTANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSGLDCLAYCGIGKVYLKKNRFLEALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIQIYITDPDFKGF
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGICLTPDCEGVISKIIFSSGGEVKEFEHVKIKEKVP
PILKQKCSSLEKRLKEDKKLKRKIQKKEAKLAQERMEEDLRESNPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLNFSGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSEIGKQLDYFSEPASLKEARCLIW
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMVLGSGTTSVTSNNEII
TSEDHSNRNSDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKQKSTLYDYFSQFLEEHPD
MSNKMFSAEYEFFPEETROILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKPVSANSPKPCEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDTQTTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVVPVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVSKSHCSTGDAH
TVLSESNRNDEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEEERQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQOEKKEIQERLKSLLK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAEVSLENWKE
SEVYKLQIMESQAEAFLLKLGLISRDPAAYPDMESEIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPVSFVSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIEHLSVVFPFCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESP SGRGWPSQNQELPSCSSR

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FIGURE 5898

CTCGCGCAAGCGGCGTGC GGTCCCGCGGCGCTGCAGTTGTGTCCAGCCGGTCACGGGGCGGCTATGGCGGCCACG
TTCTTCGGAGAGGTGGTGAAGGCGCCGTGCCGAGCTGGGACTGAGGACGAAGAGGAGGAGGAGGAGGGGCGGAGG
GAGACGCCCCGAGGACAGGGAGGTGCGTCTGCAGCTGGCGCGGAAGAGGGAAGTGC GGCTCCTTCGAAGACAAACA
AAAACATCTTTGGAAGTTTCTTTGCTAGAAAAATATCCGTGCTCCAAGTTTATAATTGCTATAGGAAATAATGCA
GTAGCATTTCTGTCA TCATTTGTTATGAATTCAGGAGTCTGGGAGGAAGTTGGTTGTGCCAAACTCTGGAATGAA
TGGTGTAGAACAACAGACACTACACATCTGTCTCCACAGAGGCTTTTTGTGTGTTTATCATCTAAAATCCAAT
CCCTCGGTTTTTCTCTGTCAGTGCAGTTGCTATGTTGCAGAAGATCAACAGTATCAGTGGCTGGAAAAGGTTTTT
GGCTCTTGTCCAAGGAAGAACATGCAGATAACTATTCTCACATGTCGACATGTTACCGATTATAAAACCTCAGAA
TCCACCGGCAGCCTTCCTTCTCCTTTTCTGAGAGCCCTAAAAACACAGAATTTCAAAGACTCGGCGTGTTGTCCA
TTGCTAGAACAAACCGAATATAGTACACGACCTTCCTGCAGCAGTTCTAAGCTACTGTCAAGTATGGAAAATCCCA
GCAATTCTGTACTTGTGTTATACTGATGTGATGAAATTAGACCTAATCACAGTGGAAAGCTTTTAAGCCTATACTT
TCTACCAGAAGCTTGAAGGGTTTGGTTAAGAATATTCCCCAAAGCACTGAGATACTAAAGAAATTGATGACAACA
AATGAGATTCAGAGTAACATTTATACATTGATCTTAAACATTGTTTTGTAGTGTATATTACTTGTCCATTCCTTTA
AGGGGAGCAGCCTGCACTCTTTTGTAGATTACTTTTGGGGGATATATTTTGAGAATGATGAAACGGAATAAAATT
GTAAAAAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5899

MAATFFGEVVKAPCRAGTEDEEEEEEGRRETPEDREVRLQLARKREVRLRRQTKTSLEVSLLEKYPCSKFIIAI
GNNVAFLLSSFVMNSGVWEEVGCALWNEWCRITDTTHLSSTEAF CVFYHLKSNPSVFLCQCSCYVAEDQQYQWL
EKVFGSCPRKNMQITILTCRHVIDYKTSESTGSLPSPFLRALKTQNFKDSACCPLLEQPNIVHDLPAAVLSYCQV
WKIPAILYLCYTDVMKLDLITVEAFKPILSTRSLKGLVKNIPOSTEILKKLMTTNEIQSNIYT

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FIGURE 5900

CGCGGCGGCTGGCGTCGGGAAAGTACAGTAAAAAGTCCGAGTGCAGCCGCCGGGCGCAGGATGGGATCCGGCTCC
TCCAGCTACCGGCCCAAGGCCATCTACCTGGACATCGATGGACGCATTTCAGAAGGTAATCTTCAGCAAGTACTGC
AACTCCAGCGACATCATGGACCTGTTCTGCATCGCCACCGGCCTGCCTCGGAACACGACCATCTCCCTGCTGACC
ACCGACGACGCCATGGTCTCCATCGACCCACCATGCCCGCGAATTCAGAACGCACTCCGTACAAAGTGAGACCT
GTGGCCATCAAGCAACTCTCCGCTGGTGTCTGAGGACAAGAGAACCACAAGCCGTGGCCAGTCTGCTGAGAGACCA
CTGAGGGACAGACGGGTTGTGGGCTGGAGCAGCCCCGGAGGGAAGGAGCATTTCGAAAGTGGACAGGTAGAGCCC
AGGCCCAGAGAGCCCCAGGGCTGCTACCAGGAAGGCCAGCGCATCCCTCCAGAGAGAGAAGAATTAATCCAGAGC
GTGCTGGCGCAGGTTGCAGAGCAGTTCTCAAGAGCATTCAAAATCAATGAACTGAAAGCTGAAGTTGCAAAATCAC
TTGGCTGTCTTAGAGAAACGCGTGGAATTGGAAGGACTAAAAGTGGTGAGATTGAGAAATGCAAGAGTGACATT
AAGAAGATGAGGGAGGAGCTGGCGGCCAGAAGCAGCAGGACCAACTGCCCTGTAAGTACAGTTTTTTGGATAAC
CACAAGAAGTTGACTCCTCGACGCGATGTTCCCACTTACCCCAAGTACCTGCTCTCTCCAGAGACCATCGAGGCC
CTGCGGAAGCCGACCTTTGACGTCGGCTTTGGGAGCCCAATGAGATGCTGAGCTGCCTGGAGCACATGTACCAC
GACCTCGGGCTGGTCAGGGACTTCAGCATCAACCCTGTCACCCTCAGGAGGTGGCTGTTCTGTGTCCACGACAAC
TACAGAAACAACCCCTTCCACAACCTCCGGCACTGCTTCTGCGTGGCCAGATGATGTACAGCATGGTCTGGCTC
TGCAGTCTCCAGGAGAAGTTCTCACAACGGATATCCTGATCCTAATGACAGCGGCCATCTGCCACGATCTGGAC
CATCCCGGCTACAACAACACGTACCAGATCAATGCCCGCAGAGCTGGCGGTCCGCTACAATGACATCTCACC
CTGGAGAACCACCACTGCGCCGTGGCCTTCCAGATCCTCGCCGAGCCTGAGTGCAACATCTTCTCCAACATCCCA
CCTGATGGGTTCAAGCAGATCCGACAGGGAATGATCACATTAATCTTGGCCACTGACATGGCAAGACATGCAGAA
ATTATGGATTCTTTCAAAGAGAAAAATGGAGAATTTTGACTACAGCAACGAGGAGCACATGACCCTGCTGAAGATG
ATTTTGATAAAATGCTGTGATATCTTAACGAGGTCCGTCCAATGGAAGTCGCAGAGCCTTGGGTGGACTGTTTA
TTAGAGGAATATTTTATGCAGAGCGACCGTGAGAAGTCAGAAGGCCCTTCTGTGGCACCCTTCATGGACCGAGAC
AAAGTGACCAAGGCCACAGCCAGATTGGGTTTCATCAAGTTTGTCTGATCCCAATGTTTGAAACAGTGACCAAG
CTCTTCCCCATGGTTGAGGAGATCATGCTGCAGCCACTTTGGGAATCCCGAGATCGCTACGAGGAGCTGAAGCGG
ATAGATGACGCCATGAAAGAGTTACAGAAGAAGACTGACAGCTTGACGTCTGGGGCCACCGAGAAGTCCAGAGAG
AGAAGCAGAGATGTGAAAAACAGTGAAGGAGACTGTGCCTGAGGAAAGCGGGGGGCGTGGCTGCAGTTCTGGACG
GGCTGGCCGAGCTGCGCGGGATCCTTGTGCAGGGAAGAGCTGCCCTGGGCACCTGGCACCACAAGACCATGTTTT
CTAAGAACCATTTTGTTCCTGATACAAAAAAAAAAAAAAAAA

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FIGURE 5901

MSGSSSYRPKAIYLDIDGRIQKVIFSKYCNSSDIMDLFCIATGLPRNTTISLLTTDDAMVSIDPTMPANSERTP
YKVRPVAIKQLSAGVEDKRITTSRGQSAERPLRDRRVVGLEQPRREGAFESGQVEPRPREPQGCYQEGQRIPPERE
ELIQSVLAQVAEQFSRAFKINELKAEVANHLAVLEKRVELEGLKVVEIEKCKSDIKKMREELAARSSRTNCPCKY
SFLDNHKKLTPRRDVPTYPKYLLSPETIEALRKPTFDVWLWEPNEMLSCLEHMYHDLGLVRDFSINPVTLRRLWF
CVHDNYRNNPFHNRHCFVCVAQMMYSMVWLCSLQEKFSQTDILILMTAAICHDLDPGYNNNTYQINARTELAVRY
NDISPLENHHCAVAFQILAEPECNIFSNIPPDGFKQIRQGMITLILATDMARHAEIMDSFKEKMFNFDYSNEEHM
TLLKMILIKCCDISNEVRPMEVAEPWVDCLEEFYMQSDREKSEGLPVAPFMDRDKVTKATAQIGFIKFLIPMF
ETVTKLFPMVEEIMLQPLWESRDYELKRIDDAMKELQKKTDSLTSKATEKSRERSRDVKNSEGDCA

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FIGURE 5902

CCACGAGACATTGGCCGGCGCCGGCCTCCGCCCCCGCCTCTCCGCCAATCACCGCCCGCCTGCTCCCCCTCGCCGT
GGGTCCCCGCGAGGGCCGCCACCCCGGGGTGCGCGTCTCCGCCCTCGCCGCGAGTCGGGGCAGCCGCTCGCCCCCTCTT
TTCCATGTATCCGTCCAGGATCCCATGACAGATTCTGTTGTCACGTCTCCTTACAGAGTTTGAGCGGTGCTGAAC
TGTCAGCACCATCTGTCCGGTCCCAGCATGCCTTCTGAGACCCCCCAGGCAGAAGTGGGGCCACAGGCTGCCCC
CACCGCTCAGGGCCACACTCGGCGAAGGGGAGCCTGGAGAAGGGGTCCCCAGAGGATAAGGAAGCCAAGGAGCCC
CTGTGGATCCGGCCCCGATGCTCCGAGCAGGTGCACCTGGCAGCTGGGCGCGCCTGCCTCCGAGTCCCCACATCAC
CACACTGCCCCGGCAAAATCTCCAAAAATCTTGCCAGATATTCTGAAGAAAATCGGGGACACCCCTATGGTCAGA
ATCAACAAGATTGGGAAGAAGTTCGGCCTGAAGTGTGAGCTCTTGGCCAAGTGTGAGTTCTTCAACGCGGGCGGG
AGCGTGAAGGACCGCATCAGCCTGCGGATGATTGAGGATGCTGAGCGCGACGGGACGCTGAAGCCCGGGGACACG
ATTATCGAGCCGACATCCGGGAACACCGGGATCGGGCTGGCCCTGGCTGCGGCGAGTGAGGGGCTATCGCTGCATC
ATCGTGATGCCAGAGAAGATGAGCTCCGAGAAGGTGGACGTGCTGCGGGCACTGGGGGCTGAGATTGTGAGGACG
CCCACCAATGCCAGGTTGACTCCCCGGAGTCACACGTGGGGGTGGCCTGGCGGCTGAAGAACGAAATCCCCAAT
TCTCACATCCTAGACCAGTACCGCAACGCCAGCAACCCCTGGCTCACTACGACACCCGCTGATGAGATCCTG
CAGCAGTGTGATGGGAAGCTGGACATGCTGGTGGCTCAGTGGGCACGGGCGGCACCATCACGGGCATTGCCAGG
AAGCTGAAGGAGAAGTGTCTGGATGCAGGATCATTGGGGTGGATCCCGAAGGGTCCATCCTCGCAGAGCCGGAG
GAGCTGAACCAGACGGAGCAGACAACCTACGAGGTGGAAGGGATCGGCTACGACTTCATCCCCACGGTGTGGAC
AGGACGGTGGTGGACAAGTGGTTCAAGAGCAACGATGAGGAGGCGTTACCTTTGCCCCGATGCTGATCGCGCAA
GAGGGGCTGCTGTGCGGTGGCAGTGTGGCAGCACGGTGGCGGTGGCCGTGAAGGCCGCGCAGGAGCTGCAGGAG
GGCCAGCGCTGCGTGGTCATTCTGCCGACTCAGTGCGGAACACATGACCAAGTTCTTGAGCGACAGGTGGATG
CTGCAGAAGGGCTTTCTGAAGGAGGAGGACCTCACGGAGAAGAAGCCCTGGTGGTGGCACCTCCGTGTTTCAAGGAG
CTGGGCCTGTGACCCCGCTGACCGTGTCTCCCGACCATCACCTGTGGGCACACCATCGAGATCCTCCGGGAGAAG
GGCTTCGACCAGGCGCCCGTGGTGGATGAGGCGGGGTAATCCTGGGAATGGTGACGCTTGGGAACATGCTCTCG
TCCCTGCTTGCCGGGAAGGTGCAGCCGTGAGACCAAGTTGGCAAAGTCATCTACAAGCAGTTCAAACAGATCCGC
CTCACGGACACGCTGGGCAGGCTCTCGCACATCCTGGAGATGGACCACTTCGCCCTGGTGGTGCACGAGCAGATC
CAGTACCACAGCACCGGGAAGTCCAGTCAGCGGCAGATGGTGTTCGGGGTGGTACCGCCATTGACTTGCTGAAC
TTCGTGGCCGCCCAGGAGCGGGACCAGAAGTGAAGTCCGGAGCGCTGGGCGGATGTTTACCAAGGAAATATTGA
GAGAGAAGTCGGCCAGGTAGGATGAACACAGGCAATGACTGCGCAGAGTGGATTAAAGGCAAAAGAGAGAAGAGT
CCAGGAAGGGGCGGGGAGAAGCCTGGGTGGCTCAGCATCCTCCACGGGCTGCGCCGTCTGCTCGGGGCTGAGCTG
GCGGGAGCAGTTTTCGTGTTTGGGTTTTTTAATTGAGATGAAATTCAAATAACCTAAAAATCAATCACTTGAAAG
TGAACAATCAGCGGCATTTAGTACATCCAGAAAGTTGTGTAGGCACCACCTCTGTACGTTCTGGAACATTCTGT
CATCACCCCGTGAAGCAATCATTTCCCTCCCGTCTTCCTCCTCCCTGGCAACTGCTGATCGACTTTGTGTCTC
TGTTGTCTAAAATAGGTTTTCCCTGTTCTGGACATTCATATAAATGGAATCACAC

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FIGURE 5903

CCCGAGGGCGTCGGCAGGGTCGGCGGGCGTCGGCAGCAGTGTCGACGGCAGCGGCGGGCGGGTGGGAAATGGCG
GAGTATCTGGCCTCCATCTTCGGCACCAGAGAAAGACAAAGTCAACTGTTTATTTTCAAATTTGGAGCATGT
CGTCATGGAGACAGGTGCTCTCGGTTGCACAATAAACCGACGTTTAGCCAGACCATTGCCCTCTTGAACATTTAC
CGTAACCCTCAAACTCTTCCCAGTCTGCTGACGGTTTTCGCTGTGCCGTGAGCGATGTGGAGATGCAGGAACAC
TATGATGAGTTTTTTGAGGAGGTTTTTACAGAAATGGAGGAGAAGTATGGGGAAGTAGAGGAGATGAACGTCTGT
GACAACCTGGGAGACCACCTGGTGGGGAACGTGTACGTCAAGTTTCGCCGTGAGGAAGATGCGGAAAAGGCTGTG
ATTGACTTGAATAACCGTTGGTTTAATGGACAGCCGATCCACGCCGAGCTGTCACCCGTGACGGACTTCAGAGAA
GCCTGCTGCCGTGAGTATGAGATGGGAGAATGCACACGAGGCGGCTTCTGCAACTTCATGCATTTGAAGCCCATT
TCCAGAGAGCTGCGGCGGGAGCTGTATGGCCGCCGTGCGCAAGAAGCATAGATCAAGATCCCGATCCCGGGAGCGT
CGTTCTCGGTCTAGAGACCGTGGTCTGTCGGTGGCGGTGGCGGTGGTGGAGGTGGCGGCGGACGGGAGCGTGAC
AGGAGGCGGTGAGAGATCGTGAAAGATCTGGGCGATTCTGAGCCATGCCATTTTACCTTATGTCTGCTAGAAA
GTGTTGTAGTTGATTGACCAAACAGTTCATAAGGGGAATTTTTTTTAAAAACAACAAAAAAAAAACATACAA
AGATGGGTTTCTGAATAAAATTTGTAGTGATAACAGT

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FIGURE 5904

MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLLNIYRNPQNSSQSADGLRCAVSDVEMQ
EHYDEFFEEVFTMEEEKYGEVEEMNVCDNLGDHLVGNVYVKFREEDAEKAVIDLNNRWFNGQPIHAELSPVTD
REACCRQYEMGECTRGGFCNFMHLKPI SRELRLRELYGRRRKKHRSRSRSRERRSRSDRGRGGGGGGGGGGGGRE
RDRRRSRDRERSGRF

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FIGURE 5905

CGGAGCCGCCCGCTGAGGTCAGAAAGGAGGCGTCTGCGCTGATCGGGTCCGCCGCGCGCCAGAGCCAGAGTCGCAG
CCGAGGGGAGCCGGGGCCGGAGCCCGAGCCCGAGCCGAGCCGAGCCGAGCGAGCGGGCGGAGACCGTGCCCCCG
CCTCGGCCCGCGCCGCCCGGGCCAGGCCCGGCATGGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTC
ATCCGCGGCTACGTGGGCAACCGGGCGGCCACGTTCCTCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAAC
TCTGTCCAGTTTTCAAACCACACAGGCTATGCCCACTGGAAGGGCCAAGTGCTGAATTCAGATGAGCTCCAGGAG
TTGTACGAAGGCCTGAGGCTGAACAACATGAATAAATATGACTACGTGCTCACAGGTTATACGAGGGACAAGTCG
TTCTTGGCCATGGTGGTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCA
GTCTTGGGTGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTTCCCGTCTACAAAGAAAAA
GTGGTGCCGCTTGCGAGACATTATCACGCCCAACCAGTTTGAGGCCGAGTTACTGAGTGCCCGGAAGATCCACAGC
CAGGAGGAAGCCTTGCGGGTGATGGACATGCTGCACTCTATGGGCCCCGACACCGTGGTCATCACCAGCTCCGAC
CTGCCCTCCCCGCAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCCGCTGGCTCCGTG
GTGATGGAACGCATCCGGATGGACATTCGCAAAGTGACGCCGTCTTTGTGGGCACTGGGGACCTGTTTGCTGCC
ATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGGTGGCCTGTGAGAAGACCGTGTCTACCTTGAC
CACGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCAGGCCGGGGAAGGAGTGAGGCCAGCCCCATGCAGCTG
GAGCTGCGGATGGTGCAGAGCAAAAGGGACATCGAGGACCCAGAGATCGTCGTCCAGGCCACGGTGCTGTGAGGG
CCCCGCCGCTTGCCCGTGACACGCAGCGCGTTGGTGTCTCCGTGTTGTCCCTGTGAAAACATGTAACGTCTGCC
TTAGAGCCATGACCGAAACTTGATATTTTTTTCTTTCATGAGTGTCCGGCATCTGCTGGTCTTCATTGTGAAACG
TGCCAGTCGTGCTTTGTGAAAAATAACAAAGTGGTCACAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5906

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLNSDELQELYEGLRLNNMN
KYDYVLTGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKVVPLADIITPN
QFEAEELSGRKIHSQEEALRVMDMLHSMGPDIVVITSSDLPS PQGSNYLIVLGSQRRRNPA GSVVMERIRMDIRK
VDAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGEGVRPSPMQLELRMVQSKRDI
EDPEIVVQATVL

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FIGURE 5907

GCGTGCTCAGTGTGCTGGGTACCAGGCGACTCCGGGACAGGGGGTCTCGGCCGTCGGCGTCATGGTTTCGCGCGT
GCAGCTCCCGCCTGAGATCCAGCTGGCTCAGCGCCTGGCGGGGAATGAGCAGGTGACCCGGGACCGGGCGGTGAG
GAAGCTCCGGAAATACATCGTCGCCAGGACTCAGCGGGCCGCAGGTGGTTTTACGCACGACGAGCTGCTGAAGGT
GTGGAAAGGACTGTTTTATTGCATGTGGATGCAGGACAAGCCACTCCTCCAGGAAGAATTAGGAAGGACTATTTTC
CCAGCTCGTTTCATGCTTTTTAGACCACGGAGGCGCAGCACCTGTTCTTCAGGCCTTCTGGCAGACCATGAATCG
CGAGTGGACGGGCATTGACAGGCTGCGCCTGGATAAATTCTACATGCTCATGCGGATGGTCTCTGAACGAGTCCTT
GAAGGTTCTGAAGATGCAAGGCTGGGAAGAAAGACAGATCGAGGAGCTGCTAGAGCTGCTGATGACTGAGATCCT
GCACCCACGACGCCAGGCCCCCAACGGTGTGAAGAGCCACTTCATCGAGATCTTCTGGAGGAGCTGACCAAAGT
GGGCGCCGAGGAGCTTACGGCAGACCAGAACCTGAAGTTTCATCGACCCCTTCTGCAGAATTGCTGCCCCGACCAA
GGATTCTTGGTTTTTGAACAACATCACTCGAGGCATCTTTGAGACGATTGTGGAGCAGGCCCCGCTTGCCATTGA
AGACCTCCTGAATGAACTGGACACACAGGATGAGGAGGTGGCGTCGGACAGTGATGAGTCCTCTGAGGGTGGTGA
GCGTGGAGACGCGCTGTCCAGAAGAGGTCTGAGAAGCCGCCCGCAGGCTCCATCTGCAGGGCTGAACCTGAGGC
TGGTGAGGAGCAGGCAGGTGACGACAGGGACAGTGGCGGCCCGCTTCTCCAGTTGACTACGAGGCAGTTGCTAA
CAGACTGTTTTGAAATGGCCAGCCGCCAGAGCACCCCTTCTCAGAACAGAAAGCGTCTCTACAAAGTGATCCGGAA
GCTGCAGGACCTGGCAGGAGGCATTTTTCCCTGAAGATGAGATCCCAGAGAAGGCCTGCAGGCGCCTGCTTGAAGG
GAGGCGGCAGAGAAGACGAAGAAGCAGAAGCGTCTGCTCAGGTTGCAGCAGGAGAGAGGGAAAGGTGAGAAGGA
GCCCCGAGCCCGGGCATGGAGAGGAAGAGGAGCAGGAGGAGGGGTGTAGGGGCCGACCCGAGGCGCGGGCAGA
GGCTGGTGAGCAGCCAGGCACAGCTGAGCGGGCCCTGCTCCGAGATCAGCCCAGGGGCCGTGGCCAGAGAGGGGC
TCGCCAGAGAAGGAGGACACCTCGGCCCCTGACCAGTGCCCCGAGCAAAGCGGCCAATGTCCAGGAGCCGGAGAA
GAAGAAGAAACGCAGGGAGTGATGTGGCCGGGCCAAGGACAGGCAGGGAGGGAGGCCAGGCCTCGCTTGCACCGC
GGGACGAGGCTGACCGGGCTGTTCTGTAGACTCAGGACCGTGGCTCCAGAACTCCTGTGCCAGGCGGGAGGGAAG
GGCGGCACTGGAGAGATGGGCCCATCATTAGGGGCCAGCATCCAGGAACTGACCTTTCCCCAGAGCCTCCGCC
TGTGGCTGTGATGACCTTGGGCCAGAAGGTCAAACCTCCGAAGACTGAACTCTGCCTGCAGCAGGACTGGCCGCC
CCTGCTGTGGGGGGTTTCAGAAAATAAAATGCCGCGCAGCCCTTGCCAGGGGAAGTGTGCTTCAGGTGTGTCTTA
CGGACGTGTGGGAGGTGGCAGGCGCCAGCCTCCGAGCAGTGTGGTGGTTTTATATTCATGTTTGTGGAAAAATCTT
GCAAGACATTTCTCTTTACAGAACTGCCCAGGTGTTAACAGGGCTGTCTGGACGGGGCTCTTTTGCTTCCCCC
TCAATCTGGGGTCTAGAGTTGTGCAAGGAATTCAGCTCCAGTAAGGCCTGGATTGCCCCGGGTGAGCGTGTGTGT
GGTGGGAAGACCTGGCTTCCGCGAGAGCCTTGTTCTTGAGGCAGGAGCGCCCCGCCATCCTGGGTACCCGCGGG
TCCGACGGCTGCGCACCTCTTTCCCTCAGCCAGGTACCCCTCAGCGTCTCCTGCCCTCTCCCTTCACACCT
GCTGGAGCCTGTGAGGGAGGTGGCGGGTCCCCACTGTGGCGACGGAGAGCTGACAGTAGCCAGGGCTTTCACC
TGATGGAACAAGGGCCTGTCTGCCGCCAGCGCTGTGGCCACAGCCTGCATAGGTGACAAGGGGCCGCTGCGTTG
GGTTTTGCCCCGATCTTCTGTTCCATGGGTGCCAGCCAGCCAGGCGGTGTGGGATCCAGCGAGAGGCCAGGGCT
TGGAGTGGGCCTGGGACCAGGAAGGACCTCTAGGCTGTGGCTGGCCTTGTGCAGACCCTGGACTGCATCCGGTTC
CCCAAAGCCCTGCTGCATTTCGAGTGTCCCCAACCCGGGCAGGTGGCACCTGGTGACACCTCCTTCAGTCCCAC
TCAGCTGGGCGGCCGGGGCAGGCTTAGGGCACAGTTAGGGGCCAAGGAGAGGGAAGGCCAGGGCCCCCTGTTCAG
GGTTAGGGTTCTTTCCCCAAAGGAACCTAAAAAGACAAGCGTGGCCAGGCACAGTGGCTCACACCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCCAGATCACCTGAGGTGAGGAGTTTGAGACCAGACTGACCAACATGGAGAAA
CCCCATCTCTACTAAAAATACAAAATTAGCCAGGCGTGGTGGACATGCCTGTAATCCCAGCTACTCGGGAGGCTG
AGGCAGGAGAATTGCTTGAACCTGGGAGGCAGAGGTTGTGGTGAGCTAAGATCACGCCATTGCACTCCAGCCTGG
GCAACGAGAGGGAAACTCTGTTTC

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FIGURE 5908

TCTATGAAACCAACATACATGGCGTTTGCATCACAGTTGGAGTCAGATGTGAGCCCGGAGGGCAGGTGTCTGGCT
TGTCACCCCGGAAGCCCTGAGGGCAGCTGTTCCCACTGGCTCTGCTGACCTTGTGCCTTGGACGGCTGTCTCAG
CGAGGGGCCGTGCACCCGCTCCTGAGCAGCGCCATGGGCCTGCTGGCCTTCTGAAGACCCAGTTTCGTGCTGCAC
CTGCTGGTCGGCTTTGTCTTCGTGGTGAGTGGTCTGGTCATCAACTTCGTCCAGCTGTGCACGCTGGCGCTCTGG
CCGGTCAGCAAGCAGCTCTACCGCCGCTCAACTGCCGCTCGCATACTCACTCTGGAGCCAAGTGGTCATGCTG
CTGGAGTGGTGGTCTGCACGGAGTGTACACTGTTACGGACCAGGCCACGGTAGAGCGCTTTGGGAAGGAGCAC
GCAGTCATCATCTCAACCACAACCTTCGAGATCGACTTCCTCTGTGGGTGGACCATGTGTGAGCGCTTCGGAGTG
CTGGGGAGCTCCAAGGTCTCGCTAAGAAGGAGCTGCTCTACGTGCCCCCTCATCGGCTGGACGTGGTACTTTCTG
GAGATTGTGTCTGCAAGCGGAAGTGGGAGGAGGACCGGGACACCGTGGTCTGAAGGGCTGAGGCGCCTGTCCGGAC
TACCCCGAGTACATGTGGTTTCTCCTGTACTGCGAGGGGACGCGCTTCACGGAGACCAAGCACC GCTTAGCATG
GAGGTGGCGGCTGCTAAGGGGCTTCCTGTCTCAAGTACCACCTGCTGCCGCGGACCAAGGGCTTCACCACCGCA
GTCAAGTGCTCCGGGGGACAGTTCGAGCTGTCTATGATGTAACCCTGAACTTCAGAGGAAACAAGAACCCGTCC
CTGCTGGGGATCCTCTACGGGAAGAAGTACGAGGCGGACATGTGCGTGAGGAGATTTCTCTGGAAGACATCCCG
CTGGATGAAAAGGAAGCAGCTCAGTGGCTTCATAAACTGTACCAGGAGAAGGACGCGCTCCAGGAGATATATAAT
CAGAAGGGCATGTTTCCAGGGGAGCAGTTTAAGCCTGCCCCGAGGCCGTGGACCCTCCTGAACTTCCTGTCTGG
GCCACCATTTCTCTGTCTCCCTCTTCAGTTTTGTCTTGGGCGTCTTTGCCAGCGGATCACCTCTCTGATCCTG
ACTTTCTTGGGGTTTGTGGGAGCAGCTTCCTTTGGAGTTCGCAGACTGATAGGAGTAACTGAGATAGAAAAAGGC
TCCAGCTACGGAAACCAAGAGTTTAAGAAAAAGGAATAATTAATGGCTGTGACTGAACACACGCGGCCCTGACGG
TGGTATCCAGTTAACTCAAAACCAACACACAGAGTGCAGGAAAAGACAATTAGAACTATTTTCTTATTAAGT
GTGACTAATATTAACAAAACCTTGAGCCAAGAGTAAAGAATTGAGAAGGCCGTGTCAGGTGAAGTCTTCAGCCTCCC
ACAGCGCAGGGTCCCAGCATCTCCACGCGCGCCCGTGGGAGGTGGGTCCGGCCGGAGAGGCTCCCCGCGGACGCC
GTCTCTCCAGAACTCCGCTTCCAAGAGGGACCTTTGGCTGCTTTCTCTCTTAACTTAGATCAAATTTTAAAAA
AAAAAAAAA

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FIGURE 5909

MGLLAFLKTQFVLHLLVGFVVFVVSGLVINFEVQLCTLALWPVSKQLYRRLNCR LAYSLWSQLVLMLEWWSCTECTL
FTDQATVERFGKEHAVIILNHNFEIDFLCGWTMCERFGVLGSSKVLAKKELLYVPLIGWTWYFLEIVFCKRKWEE
DRDTVVEGLRRLSDYPEYMWFLLYCEGTRFTETKHRVSMEVAAAKGLPVLKYHLLPRTKGFTTAVKCLRGTVA AV
YDVTLNFRGNKNPSLLGILYGKKYEADMCVRRFPLEDIPLDEKEAAQWLHKLYQEKDALQEIYNQKGMFPGEQFK
PARRPWTLLNFLSWATILLSPLFSFVLGVFASGSPLLILTFLGFVGAASFGVRRLLIGVTEIEKGSSYGNQEFKKK
E

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FIGURE 5910

GCGGCACACGTGCGACGGCCGTGATGAAGTTCGCTTACCGGTTTTCAAATTTGCTGGGTACGGTGTACCGGCGTG
GGAACCTAAATTTTACCTGCAATGGAAATTCAGTTATCAGTCCCGTGGGCAATAGAGTCACTGTATTTGACCTTA
AAAACAACAAATCTGACACGCTGCCCCTGGCCACTCGGTACAACGTCAAGTGCGTGGGGCTGTCCCCGGATGGCC
GCCTCGCTATCATCGTCGATGAAGGGGGCGATGCGCTGCTGGTCAGCCTGGTCTGCAGGTCTGTGCTGCACCACT
TCCACTTCAAGGGCTCTGTGCACAGTGTGTCTTCTCCCCTGATGGCAGGAAGTTTGTGTGACAAAGGGTAACA
TTGCCCAGATGTATCATGCCCCCTGGGAAGAAGCGGGAGTTCAACGCCTTCGTTCTGGACAAGACCTATTTTGGGC
CCTACGATGAGACCACCTGCATCGACTGGACGGATGACTCCAGGTGCTTTGTGGTTGGGAGCAAAGACATGTCCA
CCTGGGTGTTTCGGAGCCGAGCGCTGGGACAACCTCATCTACTATGCACTGGGGGGACATAAGGATGCCATCGTGG
CCTGCTTCTTTGAATCCAACAGCCTGGACCTGTACTCACTCAGCCAGGACGGAGTGCTGTGCATGTGGCAGTGTG
ACACGCCCCCGAGGGCTTGCGGCTGAAGCCCCCTGCGGGCTGGAAAGCAGACCTGTTGCAGCGGGAGGAGGAAG
AGGAGGAGGAGGAGGACCAGGAGGGCGACAGAGAGACCACCATCCGGGGAAAAGCCACTCCGGCCGAGGAGGAGA
AGACAGGAAAAGTGAAGTACTCACGGCTGGCCAAGTACTTCTTCAATAAAGAAGGGGATTTTAACAACCTGACAG
CTGCAGCATTTTATAAGAAGTCTCACCTCTTGGTCACTGGCTTTGCTTCTGGAATCTTCCATCTTCATGAGCTGC
CAGAGTTTAACTCATCCACTCCCTGAGCATTTCAGATCAGAGCATCGCCTCAGTGGCCATCAATAGCTCGGGGG
ACTGGATTGCTTTTGGCTGTTTCAAGCCTGGGCCAGCTGCTGGTGTGGGAGTGGCAGAGTGAGTCTACGTGCTCA
AGCAGCAGGGCCACTTCAACAGCATGGTGGCCCTGGCCTACTCGCCGACGGACAGTACATCGTGAAGTGGCGGGG
ACGACGGCAAGGTGAAGGTGTGGAACACCTCAGCGGCTTCTGCTTCGTCACCTTTTACGGAGCACTCCAGCGGGG
TGACCGGTGTGACCTTTTACTGCCACCGGCTACGTTGTGGTGACCTCATCCATGGACGGGACCGTGCGAGCCTTTG
ACCTTTCACAGGTACCGAACTTCCGCACCTTACCTTCCACGCCCCACCCAGTTCTCCTGTGTGGCGGTGGATG
CGAGCGGTGAGATCGTCTCTGCAGGGGGCGAGGACTCCTTTGAGATTTTCTGTGTGGTCCATGCAGACAGGCAGGC
TCCTTGATGTTTTGTCTGGACACGAAGGGCCATCAGTGGTCTGTGTTTTAACCAATGAAGTCCGTCTTGCCCA
GTGCCTCCTGGGACAAGACAGTGCGCCTATGGGACATGTTTGACAGCTGGAGGACCAAGGAGACGCTGGCCCTGA
CCTCTGATGCTCTGGCTGTGACTTTTCGCCCTGATGGTGCGGAGCTGGCTGTGGCCACACTGAACTCACAGATCA
CCTTCTGGGACCCTGAGAACGCGGTGCAGACGGGCTCCATTGAGGGCAGGCATGACCTCAAGACTGGCAGGAAGG
AGCTGGACAAGATTACAGCCAAGCACGCGGCCAAGGGGAAGGCCTTACCCGCCCTGTGCTACTCTGCAGACGGCC
ACAGCATCCTGGCGGGAGGCATGTCCAAGTTCGTGTGCATCTACCACGTCCGTGAGCAGATTCTCATGAAGAGGT
TCGAGATCTCTTGCAACCTGTCTTTGGACGCCATGGAGGAATTTTGAACCGAAGAAAAATGACAGAGTTTGGCA
ACCTGGCACTAATTGATCAGGATGCTGGGCAGGAGGATGGAGTCCGCGATACCACTGCCAGGCGTCAGGAAAGGTG
ACATGAGTTCTCGGCACTTCAAACCTGAGATCAGGGTGACCTCACTCCGCTTCTCTCCCACTGGGCGCTGCTGGG
CGGCCACCACCAGGAGGGACTCCTCATCTACTCCCTGGACACCCGCGTGCTCTTTGACCCGTTTGAGCTGGACA
CCAGCGTCACCCCCGGGAGGGTGCAGGAGGCACTGCGCCAGCAGGACTTACCAGGGCCATCCTCATGGCCCTCC
GGCTCAACGAGAGCAAACCTGGTGCAGGAGGCCCTGGAGGCGGTGCCAGGGGCAGATTGAAGTGGTACCTCCT
CCCTTCTGAACTGTATGTGGAGAAAGTGCTGGAGTTTTTAGCTTCTCCTTTGAAGTGTCTCGCCACCTGGAAT
TCTACCTCCTCTGGACTCACAACCTGCTCATGTTGCACGGACAGAAGCTGAAGTCCAGAGCCGGGACGCTGCTGC
CTGTCACTTCACTTCTCCAGAAGAGCATCCAGCGGCACCTGGACGACCTGTGCAAACTCTGTAGCTGGAACCACT
ATAACATGCAGTACGCACTAGCAGTTTCCAAGCAGCGGGGCACAAAACGCTCCCTAGACCCGCTGGGAAGTGAGG
AGGAGGCAGAAGCATCTGAAGATGACAGCCTGCATCTGCTTGGAGGAGGAGGCAGAGACTCAGAAGAAGAGATGC
TGGCCTAGAGCCAGCCGTTGCAGCGTTGGATTGTGCCGGCTAAGACCTGCCAGGGAGATGGGACCCTTGTGCCA
CCTGGGCCAGCAAAGAGGAGGGGTCCAGAGAACAGCTGAAATACTGTCACTAGTGGTAGTGAAGTGTCTTTCTG
TGCACACATGTAGCCCATCAGGACAGCGAGCCGACGGGTACGCCAGGGGCCGGCACGCACTGGCACCTGGCCCC
AGGAGCGGGGCCGTGTGAACGGTGATGAATGTTGAAATGCGTCTCAGAGAGGTATTACATGAAGTTTGTATGA
GACTTATTTATATCTTTAACATAAAGGTTTGATAAAGAAGTTAGGGATTAAAAAAAAGATGGAGTTTTCTAACGT
GAGGATGAAGTCTACACTTCAGATTAAAAAGGGTTATGTTGTA

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FIGURE 5911

CCCATCTCCACCCCTCCCCTGAACCCCACTCCCCACTGAGGTCCCCAAACCCACCCCTCACTCCACCCCTGAGGG
CCCCATCCTCTGAACCCCAATCCCCAGCCCCACTGAGCTCTTAACCCCTCCCACCTGAGGGTTCCCTTTCCCTG
CCCGTCCCCCAGCTTCCTAGCTCCCCACCCCAAGTGACCCCCCGCAGCTCCTCGCCCCCTCCCACTGCAAACCGGC
ACTGAAGGGCTGCCCCGCCCCCGCCCCCTCCCCGCCCCCGCGGGACACGCCAGATTCTTTGCCCCCATAGCCTGG
TGACCTCTGGCCACCCGCTGTCCAGGTGGGCTGGATCCTTCCAGCTCATTCTTTGCCTGCGCCGTCCCTCGTT
CCATGGCCCAGTCTCCCCGGGGACCTGAGCCTGGAAGCCCCGGACCACTGGAACCTTGAACCCACCAGCTGGC
TGTACCCGGAGCCGTGGCAGCAGCCCTCATCCCCATGGCGGCCATCCCAGCCCTGGACCCAGAGGCCGAGCCCAG
CATGGACGTGATTTTGGTGGGATCCAGTGAGCTCTCAAGCTCCGTTTCACCCGGGACAGGCAGAGATCTTATTGC
ATATGAAGTCAAGGCTAACCAGCGAAATATAGAAGACATCTGCACTGCTGCGGAAGTCTCCAGGTTCCACACACA
GCACCCCTCTGTTTGAGGGAGGGATCTGCGCCCCATGTAAGGACAAGTTCCTGGATGCCCTCTTCCTGTACGACGA
TGACGGGTACCAATCCTACTGCTCCATCTGCTGCTCCGGAGAGACGCTGCTCATCTGCGGAAACCCTGATTGCAC
CCGATGCTACTGCTTCGAGTGTGTGGATAGCCTGGTCGGCCCCGGGACCTCGGGGAAGGTGCACGCCATGAGCAA
CTGGGTGTGCTACCTGTGCCTGCCGTCTCCCGAAGCGGGCTGCTGCAGCGTCGGAGGAAGTGGCGCAGCCAGCT
CAAGGCCCTTCTACGACCGAGAGTCGGAGAATCCCCTTGAGATGTTGAAACCGTGCCTGTGTGGAGGAGACAGCC
AGTCCGGGTGCTGTCCCTTTTTGAAGACATCAAGAAAGAGCTGACGAGTTTGGGCTTTTTGGAAAGTGGTTCTGA
CCCGGGACAACCTGAAGCATGTGGTTGATGTACAGACACAGTGAGGAAGGATGTGGAGGAGTGGGGACCCCTCGA
TCTTGTGTACGGCGCCACAGCTCCCCTGGGCCACACCTGTGACCGTCCCTCCCAGCTGGTACCTGTTCCAGTTCCA
CCGTTTCTGTCAGTACGCACGGCCCCAAGCCAGGCAGCCCCAGGCCCTTCTTCTGGATGTTCTGTGGACAATCTGGT
GCTGAACAAGGAAGACCTGGACGTGCGATCTCGCTTCTGGAGATGGAGCCAGTCAACATCCCAGATGTCCACGG
CGGATCCTTGCAGAATGCTGTCCGCGTGTGGAGCAACATCCCAGCCATAAGGAGCAGCAGGCACTGGGCTCTGGT
TTCGGAAGAAGAATTGTCCCTGCTGGCCCAGAACAAGCAGAGCTCGAAGCTCGCGGCAAGTGGCCCACCAAGCT
GGTGAAGAACTGCTTTCTCCCCCTAAGAGAATATTTCAAGTATTTTCAACAGAACTCACTTCCTCTTTATAAAT
GAGTCACTATACTGTGAAGAAAAAGACTTTTCTAGAACAAAGGCAACTTTCCCTC

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FIGURE 5912

MAAIPALDPEAEPSMDVILVGSSELSSSVSPGTGRDLIAYEVKANQRNIEDICICCGSLQVHTQHPLFEGGICAP
CKDKFLDALFLYDDDGYSYCSICCSGETLLICGNPDCTRCYCFECVDSL VGPGTSGKVHAMSNNVCYLCLPSSR
SGLLQRRRKWRSQKAFYDRESENPLEMFETVPVWRRQPVRVLSLFEDIKKELTSIGFLESGSDPGQLKHVVDVT
D TVRKDV EEWGPF DLVYGATAPLGHTCDRPPSWYLFQFHRFLQYARPKPGSPRPFFWMFVDNLVLNKEDLDVASR
FLEMEPVTIPDVHGGSLQNAVRVWSNIPAIRSSRHVALVSEELSLLAQNKQSSKLA AKWPTKLVKNCFLPLREY
FKYFSTELTSSL

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FIGURE 5913

GCGACGCGGCGCAGGCGGCGGGAGTGCGAGCTGGGCCCCGTGTTTCGGCCGCGGCCATGGCCGCGGTGGACCTGGA
GAAGCTGCGGGCGCTCGGGCGCGGGCAAGGCCATCGGCGTCCTGACCAGCGGCGGCGACGCGCAAGGTCCCTTGAC
AAGCCCACCAGGCCCCCTGCTGAGATGGCTGTGACCTGGGCTGACCCGCCCAGTGGCACATTGACTCCGCCTGG
AGCTGGGGAGACCAGAGAGGCCCTGTGGTTGGACGGTGGCCTGGGTGCGCTGCTCCTGCCCTCTCCTTGCCCTGC
CTCAGCTGCTGCCTGCCAGAGCGTGGCACCTCACCTCACACCTGCTCCTGCTGCTGAGCCCCACGCCAAGCTG
GAGAGCGGATGAGAAGCATGTGTAACCAGGGTAGAGGTGAGAGTCTCTCGTGGGGGTCTCCATGTTCAAGGGA
GCTGCCGAGGCTTGAGCAGGAGCCCCCAGCAGGAACTGGCTTTGCCAAGGCCCCGCTGGGACAGACTGTTTCT
TTCAGTGCAGTCTTGGGAGCCGAGGGCAAGGGGACAGGAAAGAGGAAGTGACCTCAGAGCCTGGTGGCACCAGCA
TCATGTCCAGGCTGGGGGGCATGAACGCTGCTGTCCGGGCTGTGACGCGCATGGGCATTTATGTGGGTGCCAAAG
TCTTCTCATCTACGAGGGCTATGAGGGCCTCGTGGAGGGAGGTGAGAACATCAAGCAGGCCAACTGGCTGAGCG
TCTCCAACATCATCCAGCTGGGCGGCACTATCATTGGCAGCGCTCGCTGCAAGGCCTTTACCACCAGGGAGGGGC
GCCGGGCGAGCGGCTACAACCTGGTCCAGCACGGCATCACCAACCTGTGCGTCATCGGCGGGGATGGCAGCCTTA
CAGGTGCCAACATCTTCCGCGAGCGAGTGGGGCAGCCTGCTGGAGGAGCTGGTGGCGGAAGGTAAGATCTCAGAGA
CTACAGCCCGGACCTACTCGCACCTGAACATCGCGGGCCTAGTGGGCTCCATCGATAACGACTTCTGCGGCACCG
ACATGACCATCGGCACGGACTCGGCCCTCCACCGCATCATGGAGGTTCATCGATGCCATCACCACCCTGCCCAGA
GCCACCAGAGGACCTTCGTGCTGGAAGTGATGGGCCGGCACTGCGGGTACCTGGCGCTGGTATCTGCACTGGCCT
CAGGGGCGGACTGGCTGTTTCATCCCCGAGGCTCCACCCGAGGACGGCTGGGAGAACCTCATGTGTGAGAGGCTGG
GTGAGACTCGGAGCCGTGGGTCCCGACTGAACATCATCATCATCGCTGAGGGTGCCATTGACCGCAACGGGAAGC
CCATCTCGTCCAGCTACGTGAAGGACCTGGTGGTTGAGAGGCTGGGCTTCGACACCCGTGTAACCTGTGCTGGGCC
ACGTGCAGCGGGGAGGGACGCCCTCTGCCTTCGACCGGATCCTGAGCAGCAAGATGGGCATGGAGGCGGTGATGG
CGCTGCTGGAAGCCACGCCTGACACGCCGGCCTGCGTGGTGACCCCTCTCGGGGAACCAGTCAGTGCGGCTGCCCC
TCATGGAGTGCGTGAGATGACCAAGGAAGTGACAGAAAGCCATGGATGACAAGAGGTTTGACGAGGGCCACCCAGC
TCCGTGGTGGGAGCTTCGAGAACTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCCCAAGGAGAAGT
CTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCCGGCGGCTGGCATGAATGCGGGCGTGCCTCGGCGGTGC
GGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCCTAGCCAAGGGTCAGGTGC
AAGAAGTAGGCTGGCAGCAGCTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAAGAGGACCTGC
CCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGTGGTGGTGGGT
TTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCATCGTCATGTGTG
TCATCCCAGCCACCATCAGCAACAACGTCCCTGGCACCAGCTTCAGCCTGGGCTCCGACACTGCTGTAAATGCCG
CCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGTGGAGACCATGG
GGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCCGACGCCGCCCTACGTCTTCGAGGACC
CTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACATTCAGAGGGGCC
TGGTGCTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTCATCAGAGGGCA
AGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCCTTTGACCGGA
ACTATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGAGAAGCTGCGCGAGGTTTACCGCAAGGGAC
GGGTGTTGCGCAATGCCCCAGACTCGGCCCTGCGTGATCGGCCTGAAGAAGAAGGCGGTGGCCTTCAGCCCCGTCA
CTGAGCTCAAGAAAGACACTGATTTGAGCACCAGCATGCCACGGGAGCAGTGGTGGCTGAGCCTGCGGCTCATGC
TGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGTGACCCGCCGCA
CCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCGAGCCCCACCCATGCCAGCGCAG
CGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGTCCCTGCTCAGC
CCATCCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAGCCTGCCAGGCC
CTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCTGCCAGGGGACGTGGCGCTGTGCTGTTTGGAG
GCTGCTGCCCCCTGGCTTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCATGCTGGGCTCACTACATGGGCCAGCC
CTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGATGCCCTGGCCCTGCCTCACT
GTGACCTGCTCCTGCCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCTGACTGTGGGGTGATC
GGTCTCCGG

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FIGURE 5914

GTGGCACGGGCAGGGCCAGTGACACAGGGATCTGGGCATGGCGAGGGGATGAGAAGCTGTGGATACAAGCCCAGG
ACATGGGGTGGCCCCGCGGGGGCTGGGAAGGCTGGCAGATGTTGGGTGTGGGTACCACCCCCCTGCAGGCGTCCT
GGCGGCCGGGTGAGGCTGGATTGGACGTCTGGGTTCCTCATGCGTGCCTCCACCCGCTACCAAGGTGGCCAACCCCT
CCCTTGAGCTGGATGCCGGCCACGTGCTTTGCTGCACGGGCTGGCGTGGCCTCGTGTGTGTGGGGTCTCGCA
CCTTCTGTGGAAGGTGCCCTGCCTGGCATGCGCGGTGTCTGCTGCCTCATGGCTGAGCTTCCATCGGGCCGTGTG
CCTGTGACCAGCCTCCTGGGCTCTGTACGGCTGCGCTGTGGCTGTACGCCGTGGCGCTGCAGGGCTGTGCATGG
TGTGACCCGAATCCCTTCCAGGAGCTTCGAGAACAACCTGGAACATTTACAAGCTCCTCGCCCACCAGAAGCCCC
CAAGGAGAAGTCTAACTTCTCCCTGGCCATCCTGAATGTGGGGGCCCGGCGGCTGGCATGAATGCGGCCGTGCG
CTCGGCGGTGCGGACCGGCATCTCCCATGGACACACAGTATACGTGGTGCACGATGGCTTCGAAGGCTAGCCAA
GGGTGAGGTGCAAGAAGTAGGCTGGCACGACGTGGCCGGCTGGTTGGGGCGTGGTGGCTCCATGCTGGGGACCAA
GAGGACCCTGCCCAAGGGCCAGCTGGAGTCCATTGTGGAGAACATCCGCATCTATGGTATTCACGCCCTGCTGGT
GGTCGGTGGGTTTGAGGCCTATGAAGGGGTGCTGCAGCTGGTGGAGGCTCGCGGGCGCTACGAGGAGCTCTGCAT
CGTCATGTGTGTCATCCAGCCACCATCAGCAACAACGTCCCTGGCACCGACTTCAGCCTGGGCTCCGACACTGC
TGTAATGCCGCCATGGAGAGCTGTGACCGCATCAAACAGTCTGCCTCGGGGACCAAGCGCCGTGTGTTTCATCGT
GGAGACCATGGGGGGTTACTGTGGCTACCTGGCCACCGTGACTGGCATTGCTGTGGGGGCGGACGCCGCCCTACGT
CTTCGAGGACCCTTTCAACATCCACGACTTAAAGGTCAACGTGGAGCACATGACGGAGAAGATGAAGACAGACAT
TCAGAGGGGCTGGTGTGCGGAACGAGAAGTGCCATGACTACTACACCACGGAGTTCTGTACAACCTGTACTC
ATCAGAGGGCAAGGGCGTCTTCGACTGCAGGACCAATGTCTGGGCCACCTGCAGCAGGGTGGCGCTCCAACCCC
CTTTGACCGGAATATGGGACCAAGCTGGGGGTGAAGGCCATGCTGTGGTTGTGCGGAGAAGCTGCGCGAGGTTTA
CCGCAAGGGACGGGTGTTTCGCCAATGCCCCAGACTCGGCCTGCGTGATCGGCCTGAAGAAGAAGCGGTGGCCTT
CAGCCCCGTCACTGAGCTCAAGAAAGACACTGATTTGAGACACCGCATGCCACGGGAGCAGTGGTGGCTGAGCCT
GCGGCTCATGCTGAAGATGCTGGCACAATACCGCATCAGTATGGCCGCCTACGTGTGAGGGGAGCTGGAGCACGT
GACCCGCCGACCCCTGAGCATGGACAAGGGCTTCTGAGGCCAGCCATGCCACGCCCTCCCCAGCCCCACCCA
TGCCAGCGCAGCGCCAGGGCTCAGATGGGGCCTGGGCTGTTGTGTCTGGAGCCTGCAGGCAGGTGGGGGCTGCGT
CCCTGCTCAGCCCATCCCCCTGCCTCTATCCCTGGCCACCTGCCAGGCCTCCCTCGGGCTGGTGTCTTGAGACCAG
CCTGCCAGGCCCTCCAGCAGGAGGACAGAGTGCCCTGGGGCATCCACCTTCCTGCCAGGGGACGTGGCGCTGTC
GGTGTGTTGAGGCTGCTGCCCCCTGGCTTTGGCGCCCCATGGGCCCTCAGCGTCTCCCCATGCTGGGCTCACTAC
ATGGGCCAGCCCTTGCTCTACCTGGCCGGTAGGCTGCTGGCGCCTAGGTTGTGTTGAGAGGGGGATGCCCTGGC
CCTGCCTCACTGTGACCTGCTCCTGCCACGTGCAGCACCTGTACCTTTTCTAGAAATAAAATCACCCCTGACTG
TGGGTGCATCGGTCTCCGG

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FIGURE 5915

CCGCGCAGTCTGTACCCGCCCGGGATCAGGAGGCCGGGGGCGCCCGCGGTCTGGGCCTGGGCGGCCGCATGAAGC
TGACGCGGAAGATGGTTCTGACCCGAGCCAAGGCCTCGGAGCTGCACAGCGTGCGCAAGCTCAACTGCTGGGGCA
GCCGCCTCACAGATATCTCCATTTGCCAGGAGATGCCAGCCTGGAGGTGATCACGCTCAGTGTCAACAGCATCT
CCACCCTGGAGCCTGTGAGCCGGTGCCAGCGCCTGAGTGAGCTGTACCTGCGGAGGAACCGCATCCCCAGCCTGG
CTGAGCTCTTCTACCTGAAGGGGCTGCCGCGTCTGCGGGTGCTGTGGCTGGCCGAGAACCCGTGCTGCGGCACCA
GCCCCCACCGCTACCGCATGACCGTGCTGCGCACCCCTGCCGCGCCTACAGAAGCTGGACAACCAGGCTGTGACGG
AGGAGGAGCTGTCCCGTGCACTGAGTGAGGGAGAGGAGATCACTGCGGCCCCAGAGAGAGAGGGCACAGGCCACG
GCGGCCCCAAGCTATGCTGCACACTGAGCTCCCTCAGCTCCGCTGCTGAGACTGGCCGGGACCCGTGGACAGCG
AGGAGGAGGCAACCAGCGGCGCCAGGATGAACGTGGCCTGAAGCCGCTTCCCGGGGCCAGTTTCCCTTCCCTCT
CAGCCAGGGATGCCTCGAGCAGCCACAGGGGCGAGAACGTCTGACTGCCATCCTGCTGCTGCTGCGGGAGCTGG
ATGCAGAGGGGCTGGAGGCCGTGCAGCAGACTGTGGGCAGCCGGCTGCAGGCCCTGCGTGGGGAAGAGGTGCAGG
AGCACGCCGAGTGAACCGCAGGACCTGAACGCCGCTCCAGCCTCCACGGGGACCCAGCGTCTTCCCCAGCCCCCG
GGAGCTGGAGGGTGGCTGCCATGGCCGCGAGCCCCGCCCCACACAAAAGCCTCCCCGGTTTGCCACATCGGCCGA
GGGCAGGAGTGGGTGTTAGGTACTGGCTAACCGGGGCGGTGGAGATGCCTGTCTACACCAGTCTGTCCCCAGGA
CTCCCCCTTCTGTGGTCTGGAGGTTCTAGGCTGGCCTGGGCTCTTAAAGGGAGGATTTTGCAGGCTGTCTCCCTA
ATAAAGATTTTCCCAAGGTTGATCTGGAGGTGACGTTTCCCAAGGCATGGTTGTGACAGTCTTCTGAAAGCAA
GGGCCGTTTCTCCACAGAATGAGGAGGTCTTACGGATGGCTTTGCCGATTCCAGCCCTTGGTCCTTGGATAGAT
TTCTGTTGGGCAAGGGGAGACTTCGAGAATGCTGGCACCCATAGCGACATCTGCCCTGAGCTGCTCAGCAGGCAGG
CAGCAGCCTCCCGCACCCATGGGAGAGAGTTTTGTCTTCTGGCCGGGCTGGGCAGGTGCGCCTTCCCTTCTCTC
TCCTGTGAAGAACTGCAGGAGGGCCCTCAGCTGTGAGGTTGTGGATGAACAGGCCTGTTCCGCTTGGGGTCCGGG
CCTGGCACAGGAAGCAGCTAGACTAGGGGAGTCTTGGAGCATCTGAGAGGGGTTTTCTTCTCTGGAAGAGT
CGCAAGTCTTATGAGGATGCCACAATCTGGGCAGTGACCCGTGGCCCTGGGGACCTTCCCTAGTGCCCCCAAAAC
CAAGGAAGCATTACGTGAGATGGGGAGTCAGCCTTCCAGCTGGTGTGTAGGAAAGCCAGGTCCCTGGGCCCTTG
TCCCATGTGGGGTTGAGATCCAGATCTCCATGAGATATTCCCATCCTCCGCCGAGCGGTGATGCGTGACCGTGTG
TGCAGGCCGCTGTTCTCCCAAGCTCGGGGCCATGCCGTGCCACCGTCACCAGAGCCAGCTGCAGCACTGGGGCAG
CCACTGTCGCCGGAAGCTTGGGGAAGCCAGGGTGAAGACAGTCACTCATCCGTGCAAGCTCTCCAGAAGGGATGCA
AGCTCTCCAGAAGGGGTGTGATCTCTGAGCAGTGGGGAGTGGAGTCACCACTCGGGACATAGAGGGTGGACAGTT
CAGGCCTGTGTCTGCCTCCTTGGGACTGTGGAGTGGGTGCCCTCAGTAAAGCGCTTTGTTGGAATGGTAAAAAA
AAAAAAAAAAAAAA

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FIGURE 5916

MKLTRKMLTRAKASELH SVRKLNCWGSRLTDISICQEMPSLEVITLSVNSISTLEPVSRQRLSELYLRRNRIP
SLAELFYLKGLPRLRVLWLAENPCCGTSPHRYRMTVLRTLPR LQKLDNQAVTEEELSRALSEGEEITAAPEREGT
GHGGPKLCCTLSSLSSAAETGRDPLDSEEEATSGAQDERGLKPPSRGQFPSLSARDASSSHRGRNVLTAILLLLR
ELDAEGLEAVQQT VGSRLQALRGEEVQEHA E

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FIGURE 5917

CGCGCGGCTGAGGCGAGGTCGCTCGGCGCAGCTGTTGCGGGGCCATGGCGGGGACCGCGCTCAAGAGGCTGATGG
CCGAGTACAAACAATTAACACTGAATCCTCCGGAAGGAATTGTAGCAGGCCCATGAATGAAGAGAACTTTTTTG
AATGGGAGGCATTGATCATGGGCCAGAAAGACACCTGCTTTGAGTTTGGTGTTCCTGCCATCCTGAGTTTCC
CACTTGATTACCCGTTAAGTCCCCAAAGATGAGATTTACCTGTGAGATGTTTCATCCCAACATCTACCCTGATG
GGAGAGTCTGCATTTCCATCCTCCACGCGCCAGGCGATGACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGA
GTCCTGTGCAGAGTGTGGAGAAGATCCTGCTGTGCGGTGGTGAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAG
CTAACGTGGATGCGTCCAAATGTGGCGCGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGA
AGTCTCTGGGACTGTGAGACCTGGCCTCGCACAGGCGCGCACACACCGCCAAGCAGCTCAGCATTTCCCCCGGC
ACACTTAGTGACAGTGATGCTCTGTGCTGGTACCAAAACAAGGCAGACTTGCAAGAACCATGGCATCTTTTTTTTT
TTTCAAACCTTTCTACTTCAAACAGGCTTCTCTTCTGAAATGATGACTTAATGTGCAATATTGACAGCTTACTG
CAGTTTTACAGTATTCCTCACAAAGGGCTTCAGGTAGATTATCAGAGCTGTCAGCACTACCTCTCCCCGCTGAAA
CCAGCAGTTCATGGCTTCCTGTGGATTCCCTCCCTCCCTGGAGTGTTGAGGGGGTTGTACCTGCCAGACTTCCAG
GGGACGATGGAATACCCAGAACGCTCCTTCTGAAGAAATGGGGCCCTGTAGCTGCAGCACAGGGGAAGGGCCCGG
CACCCTTTCTGGGTCTTCTGTTCCCTGTGGGCCCCATGAGGAGTCCATTACTTCTTTCTTCTTCTCATATTT
TACAGGCAGATGCTTTTCTTATAATCTAATTACATCTTTTCATTTGTTATATATTACAAACCATCACACTTAGAA
ATACTTCCAGGAAATGCTTTTTTGAAGTGTGAATTAATAAGAAATGGGGTAAATAGAAAAGAAATTTATTGCTGA
TTGGCCAGGTGCGGTGGTTCGTGCCTGTAATCCAGCTCTTTGGGAGGCCAAGGCAGGTAGATCACAAAGTCCAGG
AAATTGAGACCATCCTGGCTAATACAGTGAAACCCCATGTCTGTCTAAAATTACAAAAAATTAGCTGGGCGTGGTG
GTGCACGCCTGTAGTCTCAGTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCAGAGGTAGCA
GTGAGCTGAAGTCCCGCCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTCAGTCTCAAAAAGAAAAAGAAAT
TTATTGCTGATCACAAAGGACAGACAGTTTTTTCCCGACCATCTCATCAAAGATTTACGTTTGTATATTAGTAAC
TAGTGCACTACTAGAGCAGGTGCAGGTGAGGTCTTTAAAGTTTCAATGAAAGTTTCTTCTGGATCTACAGAAAAA
ATTTTTTTTTTCAATCTAAAACTGGAAATCTAGGGTTTTGTACATTTTGGATGCACTGGGAATTTATTAGC
ACAAAATCATTCTTTGCAACTCAAAATTCAGAAGGGACTCTACCATATCTTAGCTCAGAGCACAGAGGAGTGCCT
TATCCCACACTTGACTGGGCTGTGGAGGTGGGCATGTGGGCCCCCTGGGCCAGGCTGGGGACAGAGCCCTTGTT
TTGTGACTTAGGATTTTGATGTGGTTCCTATGTTCTTAACAGGGCCAGCTGAGCAGCACAGGCCAGGAGGCCAC
AGTGTAAGCAATAACAGATCTGCCACATGCAGAAGCAAATATCAGGCCTGTGCGCACAGGGCGGCATTAAATAG
GAATTTCTATTTTTGAAATAAGGGATGGTCTATGAGGCATACAGTAGATTTGATGTGATCCTTTTCTCCCTCCCT
TCCATAATGGATCGTGGTCTGTGTGACTGAACCCACACAGAGTGTGATGGGTGACAGTTTCTGGTTGAAGTAGCT
CCACGCCCTGGCTTCTGTGGACAGCAGATTCTTTTCTTCTCACAAGGGGCTCATTTAAATTTGGAGGCTGGGTG
CTGTGGCTCACGCCTGCAATCCCAGCACTTTGGGAGACTGAGGCGGGCGGATCATGAGGTGAGGAGATCGCGACC
ATCCTGGCTAACAGTGAAACCCCTGTCTCCACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGCGGGCGCCTGTA
GTCCCAGCTACTCTGAAGACTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCGGAGCTTGAGTGAGCTGAGATC
ACGCCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTCAAAAAAAAAAAAAAAAAAATGGAACGCAG
GGCAAGAACTCGTATTTGGAAGGAGATGGGGGAAAGGAGCGGTATTATACCTATGTTGTATTTGCAGGCAAATGA
GATGGAGCCCTCTCTGTAAAGAGAGTCAATTTGTGCAAGTAGACGGGGTCTGTGGGTGCAGGCCCTGGAGGGGCA
CACAATTGCCTGGAGGCTTCTGTGAGATCGGGAGAGGGAGGAGAGGCAGTCTCTTGACAAAATAAGTATTTTTTA
TTCATTTGTATTTATTAATGAAAAACAATCCCATGGTGTCCCTGTTGTGTGGTGAACCTAATGACTGTTGAA
ATAAAGTTCTGTGTTTTCCCTGCCCTGC

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FIGURE 5918

MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWREALIMGPEDTCTFEFGVFPAILSFPLDYPLSPPKMRFTC
EMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQ
FYKIAKQIVQKSLGL

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FIGURE 5919

AGCCACGTGACCCCCGTGCCGGCCAACGGGTGCGCCGGGATTGGGGGATAAAGCGCGGCCCCGCGCACAGTTGC
GGCGGGAGAGCGGCGGGGCCGAGAGCGTGA CTGCCCCGCTCCGCGCTGCTTCCCCCGCGCCGCTCCCCGCGCCG
CTCGCGCAGCCATGTCCGAGGAGAAGCCCAAGGAGGGTGTGAAGACAGAGAATGACCACATCAACCTGAAGGTGG
CCGGGCAGGACGGCTCCGTGGTGCAGTTCAAGATCAAGAGGCACACGCCGCTGAGCAAGCTGATGAAGGCCTACT
GCGAGAGGCAGGGCTTGTCAATGAGGCAGATCAGATTCAAGTTTCGACGGGCAGCCAATCAATGAAACTGACACTC
CAGCACAGCTGGAGATGGAGGACGAGGACACCATCGACGTGTTCCAGCAGCAGACGGGAGGTGTGCCGGAGAGCA
GCCTGGCAGGGCACAGTTTCTAGAGGGCCCGTCCCCAGCCGGGCGCTCCATCCTCGCATTGCTGTTGAATGGTG
AGCACGTGACCATGCCGACCACAAAGGTGTCTGCGGAACTCGAGGACATTACCCACGATGATTTTTCTCTCTTT
GATGTACTTCAAGTGCAACTCAAACTATATCTGCAGGGATGAATCTGTAACCTAAATTGGGCCAATCAGAATTG
TTATCTTTGTTTCAGGTAAAATGAGTTGCAAGATATTGTGGGTACTTTTGTGTGCTCATTTGTGTTTTCCCCCCT
CCTACAACATTTTTTTAACCCTAAAATTATAGCCTGAATGTTTCGCTTTTAGTCTGGCCAGGGATCTGACTCCTGA
GTTGGTTGCCTCTCCCTGCTCACTCCAGTCACATAGAGAATTGGTGTTTCCCGCAGTGGGGATGCAGCTGTTGG
ACAGGTATTGGGGGCAAGGTTGGTAGGGAGGACAGACTGTCACTTGCTGTTACAGGCACAGGTGATTAAAATGCT
AAATATTGCAAATTTAAGCTTTGTCAGTATATGGAAAAGTTGAAGGGAAAATACTGGAATGCTTCTTCAAAGGTT
AAAAATAACCGAGTCTTTTGGTAATTTGACCCACGTGCTCTCTGGCCCTCAAGCATGTAACCTCGGGGTCTGA
GGCCCAGGACCCACCCCTGCCACCCCTCCACCCCACTCCCTGCTCAGTACCTGGCGTTGGTACACAGGCAAG
GATTGGCACAACCAAAATTGGCCTTTTTCTCCCTCTTAATATTGAAGAAATCCCACATTTCTCATTTGGTAATG
GTGTTGTGGCCTCAGATTTCTTCTAGTATTTGCTTCTGATGAATGATTATGGTCTATACATAAAAAAGTAAGACT
AAGTATTGCTGAATTTGCAGTTATGTTGTCTGTGATAAGAGCTACTTCCAAGTGTGGTTACAAATGAACCCATGG
AATGATGACTTCATGTTCTTCTCGTGGGTTTGTGCCGTGCTGCTTTCCAAATAGGTATTGAATTTATGCATTAGT
CTGGTGATTTTCAGTTCTGTGAAATATTTTGGGATCTATACCAATTAAACATTTTCATAGTTCTGCCTATTGTCCT
TCCCTGAGGCTCCATTGCTGCTTGGTGGCCATTCTCTGCCTTTTACAGTCACCTGAACAATGACCCATCATCTC
TTGCTTGCTTGAAATCTTGCTGAAATGTTCTCATTTCTGTTTGTGCTGTATGGGCTCGGGTGGGATGTTTGTGGC
TCTGTTGTGTTTATTCACCAATTTGTACATTATTGTTGTCTTTACTACTGTAAACAGTAAATATAGTTTGGT

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FIGURE 5920

MSEKPKKEGVKTENDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPINETDTPAQL
EMEDEDTIDVFQQQTGGVPESLAGHSF

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FIGURE 5921

CTGAACCTCAGCCGCGCCGGGAGGCGAGCCCGTTGGCGAGGGGCGGGGCAGATGGCGAGGGAGCGGGGCGAGCTG
CTTTTGTAGGCTGCGCACTCGCATGGCCCCACCTCGCAGGTCCACTTCCGGCGCCGCGGCTGTTCCGGGCGGAGA
CCGCTTGTGCTGGAGTCGGAGTTGTAACGCTCCACTGACTGATAGAGCGACCGGCCGACCATGGCGCCCGGAGTG
GCCCCGCGGGCCGACGCCGTACTGGAGGTTGCGCCTCGGTGGCGCCGCGCTGCTCCTGCTGCTCATCCCGGTGGCC
GCCGCGCAGGAGCTCCCGGAGCTGCTTGTTCTCAGAACACAAACAAACCTGTGAAGAGTGCTGAAGAAGCTC
TCCTGTCTTTGGTGCAACACTAACAAGGCTTGTCTGGACTACCCAGTTACAAGCGTCTTGCCACCGGCTTCCCTT
TGTAATTGAGCTCTGCACGCTGGGGAGTTTGTGGGTGAACCTTTGAGGCGCTGATCATCACCATGTCGGTAGTC
GGGGGAACCTCCTCCTGGGCATTGCCATCTGCTGCTGCTGCTGCTGTCAGGAGGAAGAGGAGCCGGAAGCCGGAC
AGGAGTGAGGAGAAGGCCATGCGTGAGCGGGAGGAGAGGCGGATACGGCAGGAGGAACGGAGAGCAGAGATGAAG
ACAAGACATGATGAAATCAGAAAAAATATGGCCTGTTTAAAGAAGAAAACCCGTATGCTAGATTTGAAAACAAC
TAAAGCGCTCCAGCACATCAGTCCCCGACGCTTCCCTGTGAGGTGCACGCTCCGCAGCCAGCCAGCCGGGAGACC
ACGTGGCCATTGCGGTCTCCTGACCTTGGCCAGTGAACCTGCCAGCCTTCCAGGACAGGCGGCCGGAGAGCTGCC
CCTGAAGGACAGTCTCTCGTCTTGCACTGGTGACCTTCTATTCCCTGTTTCATCTCTGTTTCTAGATTTAGTC
ACTTGAAATAAGAAATCTTTGGGGTTTTGGGCTTTTTTATACTCTTCTCAGTTTGTGAAACGCTAACTGCACACGA
AGCCGCTTGACGGCACCCAGCGCTGTGGCTGTCACTTCTCCAGGGCAGAACCCTGCGTTTTCTCTGTCCACTAA
CAAGCTTCACACGCAACACAGGGAAGTCGGTTTTGACTTTTGTTCATGAGGAGAAGTACCAGCCCTCATCATTCCC
CATAAAACCACGGACAGCGTCTGTGTGCGCATCTTGAGTCTTCACACCTGTTGACTCACACGGCTTTTGTGATG
ACACGGGGCTCCAGTACACAGTCTGATAAGGACTTAACGTCCTAACCTCAATTGTATTAAATAGCATTGGGGAAAT
AGCTAAACCTTTTTAAAAAAATTTATTGGATTTTCTCCCTGCTTAAAGATTTACCAGAAAACCTTCATATAA
AAATTCAGGCCCTTTTTGGACAATTTTTAAAATTTGTATCTTTACTAGAACATGAGAATCTTTTCCCTTGGAG
CTTGAATTATAAATGTGGTGTGTTGGCCTGCCTCAGCAGCACCAGTTGACTGCTCGTGTGCCAGCGGTGTGGGGAG
GACGGGGCAGGACGCTGCAGCTCTCTCCAGCCCTGTTGGCATCCTCAGTGCCTGCAGGCCTCTCGCTGCTGTTG
GGCTGTCTGGGGGGTGGCCATTTAGGGATCGTGGGGACGGGGTCCACCCCAAGAAGAAAGAAAGGCCCGTCCACA
GGCCCGGCTCTGGGCCACGTGCCCCGGAAGCAGGTGTGTCCAGAGTCAGCTGAGGGCTCTCCCCACACCACCCAG
CAGGCGCTGGTGCTCCTTCTGCCTCATGGGACAGTCCAGCTTCCAGCCGCTCTGGCTCGAGGGTGGTCTGAGCA
CTTCTTCTGAGTGGGCTTCTCTGGGAGCTCTCCAGTGGCACTGCTGGACCTGCCACGTTTCTGTAAAAATCAGG
ATACGTGGCTTTAGTAAGCAGACCAAGCGCTTCGTGGCAGGGAAAGCAGCGTGCGGGGAAGTCACTGAAAAAGTGC
TGCCTAAGGAAGTTTGGAAATAGTCCCCGTTCCAGATTGCCTTGAATTTTAAACATTTTGCTTTGGGAAAGTAG
GTCAGCAGCACCTAAGATCAAGGATGCGTTCCATTTTACACTTCACAGTCATGAAAACTGAGAAGACTGTCTTC
AGCGTGAACTAAAGTTTACAGGCAGATCACTGATCCAGAACACTTCAAGAACTCGTCAAAACAGCTCGATAAGCCT
TTTTGACTGTGTACATCTGTACCGGGAATAACATTCTAGGCTGAAATTTCCACAAAGAATAGAACCTGTACCCA
GTTCTTCAGGCTGATTTCCCTGACCTCTTGGGCATTTGTATTTGTAGTAAAGTATTGCAGAGATTCTAAGTATT
TTATAGCAGCCATCAAAATTGGACTTTGTATTGTTTATTCATAAAAGACACTTGGTAATAGACTTCAGTGAACCTC
TGTATGAATGCAGTAGTGTGCGTGCAAAATCCGCTTCTGAGCGTAGGGTGCTGAGCTGGCGCTAGGGCTCGGTT
GTGAAATACAGCGTAGTCAGCCCTTGGCGCTCAGTGTAGAAACCCACGCTGTGAAGGTGGGTCTTCGTCCATCTGC
TTTTTCTGAAATACACTAAGAGCAGCCACAAACCTGTAACCTCAAGGAAACCATAAAGCTTGGAGTGCCTTAAT
TTTTAACAGTTTCCAATAAAACGGTTTTACTACCTGA

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FIGURE 5922

MAPGVARGPTPYWRLRLGGAALLLLLIPVAAAEPPGAACSQNTNKTCEECLKNVSLWCNTNKACLDYPVTSVL
PPASLCKLSSARWVCWVNFEALIIITMSVVGTTLLGIAICCCCCRRKRSRKPDRSEEKAMREREERRIRQEER
RAEMKTRHDEIRKKYGLFKEENPYARFENN

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FIGURE 5923

TGTCAGGACTTTACGACCCGCGCCTCCAGCTGAGGTTTCTAGACGTGACCCAGGGCAGACTGGTAGCAAAGCCCC
CACGCCCAGCCAGGAGCACCGCCGAGGACTCCAGCACACCGAGGGACATGCTGGGCCTGCGCCCCCACTGCTCG
CCCTGGTGGGGCTGCTCTCCCTCGGGTGCGTCTCTCTCAGGAGTGACGAAGTTCAAGGTTCAGCAGCTGCCGGG
AATGCATCGAGTCGGGGCCCGGCTGCACCTGGTGCCAGAAGCTGAACTTCACAGGGCCGGGGGATCCTGACTCCA
TTCGCTGCGACACCCGGCCACAGCTGCTCATGAGGGGCTGTGCGGCTGACGACATCATGGACCCCAAGCCTCG
CTGAAACCCAGGAAGACCACAATGGGGGCCAGAAGCAGCTGTCCCAACAAAAGTGACGCTTTACCTGCGACCAG
GCCAGGCAGCAGCGTTCAACGTGACCTTCCGGCGGGCCAAGGGCTACCCCATCGACCTGTACTATCTGATGGACC
TCTCCTACTCCATGCTTGATGACCTCAGGAATGTCAAGAAGCTAGGTGGCGACCTGCTCCGGGCCCTCAACGAGA
TCACCGAGTCCGGCCGCATTGGCTTCGGGTCTTCGTGGACAAGACCGTGCTGCCGTTTCGTGAACACGCACCCTG
ATAAGCTGCGAAACCCATGCCCCAACAAGGAGAAAGAGTGCCAGCCCCCGTTTGCTTCAGGCACGTGCTGAAGC
TGACCAACAACCTCCAACAGTTTCAGACCGAGGTGCGGAAGCAGCTGATTTCCGGAAACCTGGATGCACCCGAGG
GTGGGCTGGACGCCATGATGCAGGTGCGCGCTGCCCGGAGGAAATCGGCTGGCGCAACGTCACGCGGCTGCTGG
TGTTTGCCACTGATGACGGCTTCCATTTTCGCGGGCGACGGGAAGCTGGGCGCCATCCTGACCCCCAACGACGGCC
GCTGTCACCTGGAGGACAACCTGTACAAGAGGAGCAACGAATTCGACTACCCATCGGTGGGCCAGCTGGCGCACA
AGCTGGCTGAAAACAACATCCAGCCCATCTTCGCGGTGACCAGTAGGATGGTGAAGACCTACGAGAACTCACCG
AGATCATCCCAAGTCAGCCGTGGGGGAGCTGTCTGAGGACTCCAGCAATGTGGTCCAACCTATTAAGAATGCTT
ACAATAAACTCTCTCCAGGGTCTTCTTGATCACAACGCCCTCCCCGACACCCTGAAAGTCACCTACGACTCCT
TCTGCAGCAATGGAGTGACGCACAGGAACCCAGGCCAGAGGTGACTGTGATGGCGTGACATCAATGTCCCGATCA
CCTTCCAGGTGAAGGTCACGGCCACAGAGTGATCCAGGAGCAGTCGTTTGTATCCGGGCGCTGGGCTTCACGG
ACATAGTGACCGTGACGGTCTTCTCCCAAGTGAGTGCCGGTGCCGGGACAGAGCAGAGACCGCAGCCTCTGCC
ATGGCAAGGGCTTCTTGAGTGCGGCATCTGCAGGTGTGACACTGGCTACATTGGGAAAACTGTGAGTGCCAGA
CACAGGGCCGGAGCAGCCAGGAGCTGGAAGGAAGCTGCCGGAAGGACAACAACCTCATCATCTGCTCAGGGCTGG
GGGACTGTGTCTGCGGGCAGTGCCCTGTGCCACACCAGCGACGTCCCCGGCAAGCTGATATACGGGCAGTACTGCC
AGTGTGACACCATCAACTGTGAGCGCTACAACGGCCAGGTCTGCGGCGGCCCGGGGAGGGGGCTCTGCTTCTGCC
GGAAGTGCCGCTGCCACCCGGGCTTTGAGGGCTCAGCGTGCCAGTGCGAGAGGACCACTGAGGGCTGCCTGAACC
CGCGGCGTGTGAGTGTAGTGGTCTGGCCGCTGCGCGCTGCAACGTATGCGAGTGCCATTCAGGCTACCAGCTGC
CTCTGTGCCAGGAGTGCCCCGGCTGCCCTCACCCCTGTGGCAAGTACATCTCCTGCGCCGAGTGCCCTGAAGTTCG
AAAAGGGCCCTTTGGGAAGAACTGCAGCGCGGCGTGTCCGGGCTGCAGCTGTCGAACAACCCCGTGAAGGGCA
GGACCTGCAAGGAGAGGGACTCAGAGGGCTGCTGGGTGGCCTACACGCTGGAGCAGCAGGACGGGATGGACCGCT
ACCTCATCTATGTGGATGAGAGCCGAGAGTGTGTGGCAGGCCCCAACATCGCCGCCATCGTCGGGGGCACCGTGG
CAGGCATCGTGCTGATCGGCATTCTCCTGCTGGTCTATCTGGAAGGCTCTGATCCACCTGAGCGACCTCCGGGAGT
ACAGGCGCTTTGAGAAGGAGAAGCTCAAGTCCAGTGGAACAATGATAATCCCTTTTCAAGAGCGCCACCACGA
CGGTCAAGAACCCCAAGTTTGTGAGAGTTAGGAGCACTTGGTGAAGACAAGGCCGTCAGGACCCACCATGTCTG
CCCCATCACGCGGCCGAGACATGGCTTGCCACAGCTCTTGAGGATGTCACCAATTAACCAGAAAATCCAGTTATTT
TCCGCCCTCAAAATGACAGCCATGGCCGGCCGGGTGCTTCTGGGGGCTCGTCGGGGGGACAGCTCCACTCTGACT
GGCAGAGTCTTTGCATGGAGACTTGAGGAGGGAGGGCTTGAGGTTGGTGAGGTTAGGTGCGTGTTCCTGTGCAA
GTCAGGACATCAGTCTGATTAAAGGTGGTGCCAATTTATTACATTTAACTTGTGAGGGTATAAAATGACATCC
CATTAATTATATTGTTAATCAATCACGTGTATAGAAAAAAATAAACTTCAATACAGGCTGTCCATGG

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FIGURE 5924A

AGCTCCAGCCGCACTGCCCCGATGGCTCCCTACCCCTGTGGCTGCCACATCCTGCTGCTGCTCTTCTGCTGCCTG
GCGGCTGCCGGGCCAACCTGCTGAACCTGAACCTGGCTTTGGTTCAATAATGAGGACACCAGCCATGCAGCTACC
ACGATCCCTGAGCCCCAGGGGCCCCCTGCCTGTGCAGCCACAGCAGATACCACCACACAGTGACCCCCCGAAT
GGTTCCACAGAGCCAGCGACAGCCCCCTGGCAGCCCTGAGCCACCTCAGAGCTGCTGGAAGATGGCCAGGACACC
CCCACTTCTGCCGAGAGCCCGGACGCGCCAGAGGAGAACATTGCCGGTGTGCGAGCCGAGATCCTGAACGTGGCC
AAAGGCATCCGGAGCTTCGTCCAGCTGTGGAATGACACTGTCCCCACTGAGAGCTTGGCCAGGGCGGAAACCCTG
GTCTTGAGACTCCTGTGGGCCCCCTTGCCCTCGCTGGGCCTTCCAGCACCCCCCAGGAGAATGGGACCACTCTC
TGGCCAGCCGTGGCATTCTAGCTCTCCGGGCGCCACACAACCGAGGCTGGCACCTTGCCTGCACCCACCCCA
TCGCTCCCTCCCTGGGCAGGCCCTGGGCACCACTCACGGGGCCCTCAGTGCCACCACCATCTTCAGAGCGCATC
AGCGAGGAGGTGGGGCTGCTGCAGCTCCTTGGGGACCCCCCGCCCCAGCAGGTACCCAGACGGATGACCCGAC
GTCGGGTGGCCTACGTCTTTGGGCCAGATGCCAACAGTGGCCAAGTGGCCCGGTACCATTCCCCAGCCTCTTC
TTCCGTGACTTCTCACTGCTGTTCCACATCCGGCCAGCCACAGAGGGGCCAGGGGTGCTGTTGCCATCACGGAC
TCGGCGCAGGCCATGGTCTTGTGGGCGTGAAGCTCTCTGGGGTGCAGGACGGGCACCAGGACATCTCCCTGCTC
TACACAGAACCAGGTGCAGGCCAGACCCACACAGCCGCCAGCTTCCGGCTCCCCGCTTCGTGCGCCAGTGGACA
CACTTAGCCCTCAGTGTGGCAGGTGGCTTTGTGGCCCTCTACGTGGACTGTGAGGAGTTCAGAGAATGCCGCTT
GCTCGGTCTCACGGGGCCTGGAGCTGGAGCCTGGCGCCGGGCTCTTCGTGGCTCAGGCGGGGGGAGCGGACCCCT
GACAAGTTCAGGGGGTGATCGCTGAGCTGAAGGTGCGCAGGGACCCCCAGGTGAGCCCCATGCACTGCCTGGAC
GAGGAAGCGCATGACTCAGATGGGGCATCCGGAGACTCTGGCAGCGGGCTCGGGGACGCCCGGGAGCTTCTCAGG
GAGGAGACGGGCGCGGCCCTAAAACCCAGGCTCCCCGCGCCACCCCCGTCACCACGCCACCCCTTGCTGGAGGC
AGCAGCACGGAAGATTCCAGAAGTGAAGAAGTCGAGGAGCAGACCACGGTGGCTTCGTTAGGAGCTCAGACACTT
CCTGGCTCAGATTCTGTCTCCACGTGGGACGGGAGTGTCCGGACCCCTGGGGGCGCGTGAAAGAGGGGCGGCCTG
AAGGGGCAGAAAGGGGAGCCAGGTGTTCCGGCAGGGCCTCCGGGGAGGGACGGCACCCCTGGAAGGGACGGCGAG
CCGGGCGACCCCGGTGAAGACGGAAGCCGGGCGACACCGGGCCACAAGGCTTCCCCGGGACTCCAGGGGACGTA
GGTCCCAAGGGCGACAAGGGAGACCCTGGGGTTGGAGAGAGAGGGGCCCCCAGGACCCCAAGGGCCTCCAGGGCCC
CCAGGACCCCTCCTTCAGACACGACAAGCTGACCTTCATTGACATGGAGGGATCTGGCTTCGGGGGCGATCTGGAG
GCCCTTGGGGTGTAACAGCTCCGACGTCCAGGACCCGCGGCCCTTCTGGTGTGCTGGGCGCGAGGGTCCCCC
GGGTTTCTGGCCTCCCGGGACCCCCAGGCCCTCCGGGAAGAGAGGGGGCCCCCAGGAAGGACTGGGCAGAAAGGC
AGCCTGGGTGAAGCAGGCGCCCCAGGACATAAGGGGAGCAAGGGAGCCCCCGGTCTGCTGGTGTCTGTGGGGAG
AGCGGCCTGGCAGGAGCCCCCGGACCTGTGGACCACAGGCCCCCTGGGCCCCCTGGGCCCCCAGGACCAGGA
CTCCCCGCTGGATTTGATGACATGGAAGGCTCCGGGGGGCCCTTCTGGTCAACAGCCCCGAAGCGCTGATGGGCCA
CAGGGACCTCCCGCCTGCCGGGACTTAAGGGGGATCCTGGCGTGCTGGGCTGCCGGGGGCGAAGGGAGAGATTG
GGAGCAGATGGAGTCCCCGGGTCCCCGGCCTCCCTGGCAGAGAGGGCATTGCTGGGCCCCAGGGGCCAAAGGGA
GACAGAGGCAGCCGGGGAGAAAAGGGAGATCCAGGGAAGGACGGAGTCGGGCAGCCGGGCCTCCCTGGCCCCC
GGACCCCGGGACCTGTGGTCTACGTGTGCGAGCAGGACGGATCCGTCTGAGCGTGCCGGGACCTGAGGGCCGG
CCGGGTTTTCGAGGCTTTCCCGGACCTGCAGGACCCAGGGCAACCTGGGCTCTAAGGGCGAACGAGGCTCCCCG
GGACCCAAGGGTGAGAAGGGTGAACCGGGCAGCATCTTCAGCCCCGACGGCGGTGCCCTGGGCCCTGCCAGAAA
GGAGCCAAGGTGAGGGCCGGGCTTCCGAGGACCCCCGGGTCCATACGGACGGCCGGGTACAAGGGAGAGATTGG
CTTTCTGGACGGCCGGGTGCCCCGGGATGAACGGATTGAAAGGAGAGAAAGGGGAGCCGGGAGATGCCAGCCT
TGGATTTGGCATGAGGGGAATGCCCGGCCCCCCAGGACCTCCAGGGCCCCAGGCCCTCCAGGGACTCCTGTTTA
CGACAGCAATGTGTTTGTGAGTCCAGCCGCCCGGGCCTCCAGGATTGCCAGGGAATCAGGGCCCTCCAGGACC
CAAGGGCGCCAAAGGAGAAAGTGGGCCCCCCCCGGACACCAGGGCAGTTTCGTTTGACTTTCTTCAGTTGGAGGC
TGAAATGAAGGGGGAGAAAGGGAGACCGAGGTGATGCAGGACAGAAAGGCGAAAGGGGGAGCCGGGGGCGCGG
TTTCTTCGGCTCCAGCCTGCCCGGCCCCCCCGGCCCCCCAGGCCCCCCAGGCCACGTGGCTACCCTGGGATTCC
AGGTCCCAAGGGAGAGAGCATCCGGGGCCAGCCCGGCCACCTGGACCTCAGGGACCCCCCGGCATCGGCTACGA
GGGGCGCCAGGGCCCTCCCGGCCCCCCAGGCCCCCCAGGGCCCCCTTATTTCCTGGCCCTCACAGGCAGACTAT
CAGCGTTCCCGGCCCTCCGGGCCCCCCCTGGGCCCTTGGGCCCTTGAACCATGGGCGCCTCCTCAGGGGTGAG
GCTCTGGGCTACACGCCAGGCCATGCTGGGCCAGGTGCACGAGGTTCCGAGGGCTGGCTCATCTTCGTGGCCGA

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FIGURE 5924B

GCAGGAGGAGCTCTACGTCCGCGTGCAGAACGGGTTCCGGAAGGTCCAGCTGGAGGCCCCGACACCACTCCCACG
AGGGACGGACAATGAAGTGGCCGCCTTGACGCCCCCGTGGTGCAGCTGCACGACAGCAACCCCTACCCGCGGCG
GGAGCACCCCCACCCACCGCGCGGCCCTGGCGGGCAGATGACATCCTGGCCAGCCCCCTCGCCTGCCCGAGCC
CCAGCCCTACCCCGGAGCCCCGCACACAGCTCCTACGTGCACCTGCGGCCGGCGCGACCCACAAGCCACCCGC
CCACAGCCACCGCGACTTCCAGCCGGTGCTCCACCTGGTTGCGCTCAACAGCCCCCTGTCAGGCGGCATGCGGGG
CATCCGCGGGGCCGACTTCCAGTGCTTCCAGCAGGCGCGGGCCGTGGGGCTGGCGGGCACCTTCCGCGCCTTCCT
GTCTTCGCGCCTGCAGGACCTGTACAGCATCGTGCGCCGTGCCGACCGCGCAGCCGTGCCATCGTCAACCTCAA
GGACGAGCTGCTGTTTCCAGCTGGGAGGCTCTGTTCTCAGGCTCTGAGGGTCCGCTGAAGCCCGGGGCACGCAT
CTTCTCCTTTGACGGCAAGGACGTCTTGAGGCACCCACCTGGCCCCAGAAGAGCGTGTGGCATGGCTCGGACCC
CAACGGGCGCAGGCTGACCGAGAGCTACTGTGAGACGTGGCGGACGGAGGCTCCCTCGGCCACGGGCCAGGCCTC
CTCGCTGCTGGGGGCGAGGCTCCTGGGGCAGAGTGCCGCGAGCTGCCATCACGCCTACATCGTGCTCTGCATTGA
GAACAGCTTCATGACTGCCTCCAAGTAGCCACCGCCTGGATGCGGATGGCCGGAGAGGACCGGCGGCTCGGAGGA
AGCCCCACCGTGGGCAGGGAGCGGCCGGCCAGCCCCCTGGCCCCAGGACCTGGCTGCCATACTTTCTGTATAGT
TCACGTTTCATGTAATCCTCAAGAAATAAAAGGAAGCCAAAGAGTGTATTTTTTTAAAGTTTAAACAGAAGCC
TGATGCTGACATTCACCTGCCCCAACTCTCCCCTGACCTGTGAGCCCAGCTGGGTCAGGCAGGGTGAGTATCAT
GCCCTGTGCAACCTCTTGGCCTGATCAGACCACGGCTCGATTCTCCAGGATTTCCTGCTTTGGGAAGCCGTGCT
CGCCCCAGCAGGTGCTGACTTCATCTCCACCTAGCAGCACCGTTCTGTGCACAAAACCCAGACCTGTTAGCAGA
CAGGCCCCGTGAGGCAATGGGAGCTGAGGCCACACTCAGCACAAGGCCATCTGGGCTCCTCCAGGGTGTGTGCTC
GCCCTGCGGTAGATGGGAGGGAGGCTCAGGTCCCTGGGGCTAGGGGGAGCCCCCTTCTGCTCAGCTCTGGGCCATT
CTCCACAGCAACCCACAGGCTGAAGCAGGTTCCCAAGCTCAGAGGCGCACTGTGACCCCCAGCTCCGGCCTGTCTT
CCAACACCAAGCACAGCAGCCTGGGGCTGGCCTCCCAAATGAGCCATGAGATGATACATCCAAAGCAGACAGCTC
CACCTTGGCCGAGTCCAAGCTGGGAGATTCAAGGGACCCATGAGTTGGGGTCTGGCAGCCTCCCATCCAGGGCCC
CCATCTCATGCCCCCTGGCTGGGACGTGGCTCAGCCAGCACTTGTCCAGCTGAGCGCCAGGATGGAACACGGCCAC
ATCAAAGAGGCTGAGGCTGGCACAGGACATGCGGTAGCCAGCACACAGGGCAGTGAGGGAGGGCTGTCTGTG
CACTGCCCATGGACAGGCTGGCTCCAGATGCAGGGCAGTCATTGGCTGTCTCCTAGGAAACCCATATCCTTACCC
TCCTTGGGACTGAAGGGGAACCCCGGGGTGCCACAGGCCGCCCTGCGGGTGAACAAAGCAGCCACGAGGTGCAA
CAAGGTCTCTGTGAGTCACAGCCACCCCTGAGATCCGGCAACATCAACCCGAGTCATTGTTCTGTGGAGGGAC
AAGTGGACTCAGGGCAGCGCCAGGCTGACCACAGCACAGCCAACACGCACCTGCCTCAGGACTGCGACGAAACCG
GTGGGGCTGGTTCTGTAATTGTGTGTGATGTGAAGCCAATTCAGACAGGCAAATAAAAGTGACCTTTTACACTG

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FIGURE 5925

GGCCGTTGAGGAGGTGCAGGGAGAGGAGCGGGAGGGCTCTGGGTGGCTGCCAAGGGGGAGCTCTGCGCTCAGACC
CTCAACTAAGACCAGGAGGTGCCTGATGAGGCCCCAGCCTGCAGAGCCAGCTCCTGGTGGAAGAGGAAATGAGGC
ATGCTCCATTTCATTTCGGAGGTACGAACGAGATCACGCCGGTGCTGTCTGCTACTCCTACCTGGCCGTGCTGGTGCC
CGTGTTCCCTGCTCACCGACTACCTGCGCTACACGCCGGTGCTGCTGCTGCAGGGGCTCAGCTTCGTGTCTGGTGCTG
GCTGCTGCTGCTGCTGGGCCACTCGGTGGCGCACATGCAGCTCATGGAGCTCTTCTACAGCGTCACCATGGCCGC
GCGCATCGCCTATTCTCTACATCTTCTCTCTCGTGCGGCCCGCGCGCTACCAGCGTGTGGCCGGCTACTCGCG
CGCTGCGGTGCTGCTGGGCGTGTTACACAGCTCCGTGCTGGGCCAGCTGCTGGTCACTGTGGGCCGAGTCTCCTT
CTCCACGCTCAACTACATCTCGCTGGCCTTCCTCACCTTCAGCGTGGTCCTCGCCCTCTTCTGAAGCGCCCCAA
GCGCAGCCTCTTCTTCAACCGCGACGACCGGGGGCGGTGCGAAACCTCGGCTTCGGAGCTGGAGCGCATGAATCC
TGGCCCAGGCGGGAAGCTGGGACACGCCCTGCGGGTGGCCTGTGGGGACTCAGTGCTGGCGCGGATGCTGCGGGA
GCTGGGGG

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FIGURE 5926A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGGCGGCCCACTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCCAGACATGAGGGCGGCCCGTGTCTGTCTGCCCTGTGTGTGACGGCCTGTGTGGACAGC
CGCGCAGGATGAGCCGAGACCCGAGGGCCGTGGCCTTCCAGGACTGCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCTTCCACCAAGCG
TTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAAGCAGCGTGGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACAGTACCGGCGCAACTTCACGGCGGGCTGACTG
GGGCCAAGTGTGCTGCTCCTTGAATGCCAGCCTGCAAGAGGACCTCCGGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCAGGAGAGAAGGGAGAAGCCGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCCAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGAGCGGCTGAAGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCCGGGTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGTGCCTTTGG
ACTGAAAGGAGAAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCGGGGAGACCAGGGAGCTCGGGACCATCTGGAGA
CGAGGGCCAGCCGGGAGAGCCTGGGCCCCCCGGAGAGAAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGACCCAGGCACGCGGGGACCAAGAGG
AGACCTTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAGAAGGAAGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGACCCCTGGAGACCCGGGGCTGATGGGTGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCGGGCAACAGGGCGCTCCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGAGATAACAACGACATTGACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCGAGGGCCCCAGGGACCCAGGACACCAAGGACCCCTGGGCCGGACGA
ATGCGAGATTTTGGACATCATCATGAAATGTGCTCTTGCTGTGAATGCAAGTGCGGCCCCATCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTGCTCAAGGTCATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCTGACGCGGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCGAGCTGCTGCCGCCAG
CCCGAACAACCGCATCGCCCTGGTTCATCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCCAGGGCCGGCCCGGCTCTCGCTGGTCAAGGAGAATA
TGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTACCGCCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCCTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTCTGCTGAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCTGCCATCGAGAAGGCCGTGCAGGAAGCCAGCGGGCAGGCATCGA
GATCTTCTGTGGTGGTCTGTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCACCCCTGCACGCCGGCACCAACCCTGTCTCCCAACCC
TCCCCACTCATCTAAACAGAGTAAATGTGATGCGAATTTTCCCGACCAACCTGATTGCTAGATTTTTTTTA
AGGAAAAGCTTGGAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGAGGGTCTCCGGGGCTCAGCCCTGAGT
TGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTAGTGTACCTGCACAGGGCCCTCTGAGGCTCA
GCCCTGAGCTGGCGTCACTGTGACGGGCCCTCTGGGGCTCAGCCCTGAGCTGGCCTCACCTGGGTTCCTCCACCC
CGGGCTCTCTGCCCTGCCCTCCTGCCCGCCCTCCTCCTGCTGCGCAGCTCCTTCCCTAGGCACCTCTGTGCT

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FIGURE 5926B

GCATCCCACCAGCCTGAGCAAGACGCCCTCTCGGGGCCTGTGCCGCACTAGCCTCCCTCTCCTCTGTCCCCATAG
CTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAACTCAAAGCAAGCTCTTCTCCTCAGCTTG
GGGCAGCCATTGGCCTCTGTCTCGTTTTTGGGAAACCAAGGTCAGGAGGCCGTTGCAGACATAAATCTCGGCGACT
CGGCCCCGTCTCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAGCCCTGGAGGCCGCTGCTGAC
CAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGACCCTCGAGATTAACGGTGCT
AACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAGCCCCTTGGTGCCACAGAGGG
CTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCTCAGAATAGTGATGTGTTTCGACGTTTTATCAAAGGCC
CCTTTCTATGTTTCATGTTAGTTTTGCTCCTTCTGTGTTTTTTTCTGAACCATATCCATGTTGCTGACTTTTCCAA
ATAAAGGTTTTCACTCCTC

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FIGURE 5927

TGCTGTGGAAACTCTTCTGGGGCCCCGGGGGGACTACCCTGCCTGCCGTGTGCATTGCAGGAGTGTGACGTCATG
ACCTACGTGAGGGAGACCTGCGGGTGCTGCGGTGAGGCACTGCCACGGCAGGGTCGGGGCCCATGCACCGGGTG
GAGGGCGGGAGTGCAGCAGGGCTGGGTTCATCGCTGGGTCTGTCATGTGCACGTGACCCTAGGGTCTGAGGTCTCC
CCGGTACCCCCGATGACCCTGCCACCCCCCAGACTGTGAGAAGCGCTGTGGCGCCCTGGACGTGGTCTTCGTC
ATCGACAGCTCCGAGAGCATTGGGTACACCAACTTCACACTGGAGAAGAACTTCGTTCATCAACGTGGTCAACAGG
CTGGGTGCCATCGCTAAGGACCCCAAGTCCGAGACAGGTGACGCGGGCAGGGGCGGGTGCAGCATTGCGGGGGGC
CGGGCGGGGCGTGGGAGGCGATGAGATGGGAGAAGTCCAGACGCGTCCCTCCAACGAGGGGCTCTGCATGGCTGG
GGATGCCCCAGACCCGAGGCCTCTGGCAACGACCTCACGCGTGCGGCTTGACAGGGACGCGTGTGGGCGTGGTGC
AGTACAGCCACGAGGGCACCTTTGAGGCCATCCAGCTGGACGACGAACGTATCGACTCCCTGTGAGCTTCAAGG
AGGCTGTCAAGAACCTCGAGTGGATTGCGGGCGGCACCTGGACACCCTCAGCCCTCAAGTTTGCCTACGACCGCC
TCATCAAGGAGAGCCGGCGCCAGAAGACACGTGTGTTTGCGGTGGTCATCACGGACGGGCGCCACGACCCTCGGG
ACGATGACCTCAACTTGCGGGCGCTGTGCGACCGGACGTACAGTGACGGCCATCGGCATCGGGGACATGTTCC
ACGAGAAGCACGAGAGTGAAAACCTCTACTCCATCGCTGCGACAAGCCACAGCAGGTGCGCAACATGACGCTGT
TCTCCGACCTGGTCGCTGAGAAGTTCATCGATGACATGGAGGACGTCTCTGCCCCGGGTGAGCGTGTGGGCGCGG
GGCAGTCGGCCGAGGAGCAGCAGGCCCCAGCCGCTGTCTAGCGTGAGCCCCAGGGACACCCCTCACCTGAGGGAT
GAATGTGCAGCCCAGGATCTTGGGCTGTGGGTGGGAAGGGGTGCGGCCCTCTCGGGGCTGCAGGGCAGAGGCCAG
CTGCACCCTGAGCCTGTCTAGGCAGATCAGTGAACGGCCGCTGAGGGTTGCTAGGGACTGACCCTGGCCTGGCC
CGGCCTCTCTCCTCTCTTCCAGACCCTCAGATCGTGTGCCAGACCTTCCCTGCCAAACAGGTAATGCAGGGCAC
CCTGAGCCACCACCCAGACTAGCAAAGCAGCCCTGGTGTCTTCTCCTCGAGGGCCGGGCTGGGGGAGGGGCC
GTGCAGGGACCCGGGGGGCGGCGGAGCCACTGCGGAGGCTGCTCCTTAGGGAGATGGCCCCAGGATGGCAGCACA
GGGAGGAGGGGCTTGGGGAAGGCAGGCTCCAGGAACGCAGGAACAGCATCACGAGGCCATGAGGTGGGTGCTG
CTAGCCTGGCGCTGTGCTCGGCATGTGGCCACTGGTCTTGAAGGCCCCACCATGGGCCTTGCACTCTCCCTCAGCT
GCCGCCAGCTCCCATGGGCTGGCCGTGCATGTGCCACTCGGAGGAAGCCCTGGATTCAGTGAGTGAAACCATCC
CGGGGTGGAAGCACTGACACCCCCAGCACCAGCAGGTCTTGCTCCAACCCTGGCCTGCCTCGGAGCTGCAGCTG
CGGCTCTCACATCTCTGGGAGTGGGGGAGCCCATGTCCCGGATGTGGCCACGTGGGTGTGAAGCTGGAGCTGGG
GGTGCCGTCCAGGCTCTGCTGGACGTGGTGCTGCCCCATGGTGCACTGCTGCACCGTACCTGGGCCACAGGAG
GTCCCCGGGGGCGTTAGGAGCTGAGTCCCCCTCAGTGAGCCGTCCTCCAGGAGTGTGAGGGTAGGGATGCCAT
GGAGACAGGGTGGGAGGGTCCGACCTGGAGGACCACAGGGAGGAAACCTCAGGGTCTGCGGTACGAAGTCAGCGC
TTCTCAGCACGCGGGTCGCGGTGTCGTTTCGGGCGTTCCATGGGGAG

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FIGURE 5928

GCAGTGAAAAATGTTATTAGTTTTGAGGGGGTTTGGGAAGCCAGCGGTACCTGAGGAGTTTCTGGACATTTAAGC
CGGTTCCCTAGGTGTGGCCTTAACAGGGAGGCTGCCCTTCCTTTCACTGAATGAGCTGCGTCACTCATAAGCTCAC
TGAGGGAACCCCATCTGCCAGCTCGTGCGTGCTCAGACGGCGTCCATGTCTCAAGCGTTCTGTGAAGGCTGCGGT
GCAGCGTGAGGTACCCCTGCTGTGTTCAAGAGCTTTGCTCACTGCCTGCGGGGCTGGACCGTTGCACCTCCAGGGC
CCCCAGAAACCGAGTTTCGGGTGAGGGTCCTCTGTGTGCATTCTGGGGGTCCATGTACCAGCTGTGACGACGTC
CAGGGGTTGGGCTGAGAAGCAGACACCCCTTGGGGAAACTGGCTCTGTCCCTCCCCTCCCCATCCCAGGAGCTGA
GGTCTTGGTGAGGCCACAGGGCCAGGTCCACGCAAGGACTGTCCGTGTCTGTCTGTGGTCTCTGCCCCACGT
GACACCCACACGTGTGGTAGGCAGCCTGGCCTGGGTTGTGGCTATGGCCAGGCCCCCAAGCTGTCCCGATGCCC
AGGGCTGGTGACCACCCAGGCAGGTGGGGGCCCCACTTGGTAACAGAGTCATAGGGCAGAACCCACCTGGGCTGC
CACAGAAGGTCTGGCTGCCCCCTGTGCCCCACTGCTCCCCACCATGGCCAATCAGAAGAGTCAGGGGCTCCTGGTCT
TTCCGGGAGGGACGTGGCCAGCCAGCTCTAGGTGTTCTGAGCAGCTCTGGGACCCAGCGATTGAGGGGTACGGC
TGGGGGTGTGAGGCCAGGGTCTCCTTAAGTACCTCCCACACTACACAGACAGTGGCCCTTTTGTGGGCAGCAA
ATTCTTGAGCCATGAAAGGATGCTTTGGGCCCCCTTCCCTCCCAGGAGGGCAGCCTGTGCAGGGATGGTGCTCAGC
AGGTGGACAGGGCCTGGGGCTGTGTGAGGGTCTCAGGCCTGGGAGCACCAGCAGAGGAGATGGCGGCTCCCAGC
AGTGCCGCTGAAAGTGTCTTGGGCTAAGGACCCACACCCAGGGCTGCCCTGCAGAAACGCCCCCGCAGAGCCCA
GTGGTCTGTGAGGTTGCAGGCAGGGTGCGAATGGAAGGGCACAGGTGCGGGGCTGGCACCTGCCCGGTCTGCCC
ACCTCCCCTCCGCCCAGCCCGCACCTGCGTCTCCCCACAGAGCTGTCCGTGGCACAGTGCACGCAGCGCCCCGTG
GACATCGTCTTCTGTGACGGCTCCGAGCGGCTGGGTGAGCAGAACTTCCACAAGGCCCGGCGCTTCGTGGAG
CAGGTGGCGCGGCGGCTGACGCTGGCCCGGAGGGACGACGACCTCTCAACGCACGCGTGGCGCTGCTGCAGTTT
GGTGGCCCCGGCGAGCAGCAGGTGGCCTTCCCGCTGAGCCACAACCTCACGGCCATCCACGAGGCGCTGGAGACC
ACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAATGCCATCGTGCGCAGCCCCG
CGTGGCGGGGCCCCGAGGCACGCAGAGCTGTCTTCGTGTTCTCACGGACGGCGTCACGGGCAACGACAGTCTG
CACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATG
GACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCGCTGTTCCACGAGAAGGACTATGACAGCCTGGCGCAA
CCCGGCTTCTTCGACCGCTTCATCCGCTGGATCTGCTAGCGCCGCGCCCGGGCCCCGAGTCGAGGGTCTGTGAG
CCCACCCCGTCCATGGTGCTAAGCGGGCCCGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTG
GGCCTGCACCTCTCCAGCTCCTCCCACGGGTCCCCGTAGCCCCGGCCCCCGCCAGCCCCAGGTCTCCCCAGGC
CCTCCGCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTG
GAGCAAGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5929

CACGAGGCGCTGGAGACCACACAATACCTGAACTCCTTCTCGCACGTGGGCGCAGGCGTGGTGCACGCCATCAAT
GCCATCGTGCGCAGCCCGCGTGGCGGGGCCCCGGAGGCACGCAGAGCTGTCCTTCGTGTTTCCTCACGGACGGCGTC
ACGGGCAACGACAGTCTGCACGAGTCGGCGCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTG
GGCAGCGACGTGGACATGGACGTGCTCACCACGCTCAGCCTGGGTGACCGCGCCGCCGTGTTCCACGAGAAGGAC
TATGACAGCCTGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACC

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FIGURE 5930

CCGGAGGCACGCAGAGCTGTCCTTCGTGTTTCCTCACGGACGGCGTCACGGGCAACGACAGTCTGCACGAGTCGGC
GCACTCCATGCGCAAGCAGAACGTGGTACCCACCGTGCTGGCCTTGGGCAGCGACGTGGACATGGACGTGCCCAC
CCCGTCCATGGTGCTAAGCGGGCCCCGGGTCCCACACGGCCAGCACCGCTGCTCACTCGGACGACGCCCTGGGCCT
GCACCTCTCCAGCTCCTCCCACGGGGTCCCCGTAGCCCCGGCCCCCGCCCAGCCCCAGGTCTCCCCAGGCCCTCC
GCAGGCTGCCCCGGCCTCCCTCCCCCTGCAGCCATCCCAAGGCTCCTGACCTACCTGGCCCCCTGAGCTCTGGAGCA
AGCCCTGACCCAATAAAGGCTTTGAACCC

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FIGURE 5931

CCCTTGCCTACTGCTCATGGGTGTGGAGACTGATATTCTGGAAGACTGATAGGCAGATTTACTATTAACAAACAC
ATAGTCTGTGGCCAGCAAAGCCACCCCAATCCCTGCACAAGGGTAAAAGGCCAGCATTAGAGCACTGCAGCAGC
AATGACGGAGGGGCACGTGTCTGCGGCGCCGAGGGGGCCCTACAAGACCAGCCCGCCACCGACCTCGGCCGCTG
GCGACTCAACTGCGAGAGGGGCGGGCAGACGTGGACCTACCTGCAGGACGAGCGCGCCGGCCGAGCAGACCCGG
CCTGGAAGCCTACGCCCTGGGGCTGGACACCAAGAATTACTTTAAGGACTTGCCCAAAGCCCACACCGCCTTTGA
GGGGGCTCTGAACGGGATGACATTTTACGTGGGGCTGCAGGCTGAGGATGGGCACTGGACGGGTGATTATGGTGG
CCCCTTTTCTCCTGCCAGGCCTCCTGATCACTTGCCACGTGGCAGCATCCCTCTGCCAGCCGGATACAGAGA
AGAGATTGTGCGGTACCTGCGGTCACTGCAGCTCCCTGACGGTGGCTGGGGCTGCACATTGAGGATAAGTCCAC
CGTGTGTGGGACTGCGCTCAACTATGTGTCTCTCAGAATTCTGGGTGTTGGGCTGACGATCCTGACCTGGTACG
AGCCCGGAACATTCTTCACAAGAAAGGTGGTGTGTGGCCATCCCTCCTGGGGGAAGTTCTGGGTGGCTGTCTT
GAATGTTTACAGCTGGGAAGGCCTCAATACCCCTGTTCCCAGAGATGTGGCTGTTTCTGACTGGGCACCGGCACA
CCCCTCCACACTCTGGTGCCACTGCCGGCAGGTGTACCTGCCCATGAGCTACTGCTACGCCGTTTCGGCTGAGTGC
CGCGGAAGACCCGCTGGTCCAGAGCCTCCGCCAGGAGCTCTATGTGGAGGACTTCGCCAGCATTGACTGGCTGGC
GCAGAGGAACAACGTGGCCCCCGACGAGCTGTACACGCCCCACAGCTGGCTGCTCCGCGTGGTATATGCGCTCCT
CAACCTGTATGACACCAACAGTGCCTACCTGCGGCGAGCGGCGCTGCAGAAGCTGTATGAACACATTGTGGC
CGACGACCGATTACCAAGAGCATCAGCATCGGCCGATCTCGAAAACCATCAACATGCTTGTGCGCTGGTATGT
GGACGGGCGCCCTCCACTGCCTTCCAGGAGCATGTCTCCAGAATCCCGACTATCTGGATGGGCTTGACGG
CATGAAAATGCAGGGCACCAACGGCTCACAGATCTGGGACACCGCATTCGCCATCCAGGCTCTGCTTGAGGCGGG
CGGGCACACAGGCCCCGAGTTTTCTGCTGCTGCAGAAAGGCTCATGAGTTCCTGAGGCTCTCAGCTGCCATGCCG
TAACCTCCCGACTACCAGAAGTACTACCGCCAGATGCGCAAGGGTGGCTTCTCCTTCAGTACGCTGGACTGCGG
CTGGATCGTTTTCTGACTGCACGGCTGAGGCCCTGAAGGCTGTGCTGCTCCTGCAGGAGAAGTCTCCCATGTAC
CGAGCACATCCCCAGAGAACGGCTCTGCGATGCTGTGGCTGTGCTGCTGAACATGAGAAATCCAGATGGAGGTT
CGCCACCTATGAGACCAAGCGTGGGGGGCACTTGCTGGAGCTGCTGAACCCCTCGGAGGTCTTCGGGGACATCAT
GATTGACTACACCTATGTGGAGTGCACCTCAGCCGTGATGCAGGCGCTTAAGTATTTCCACAAGCCTTTCCCGGA
GCACAGGGCAGCGGAGATCCGGGAGACCCTCACGCAGGGCTTAGAGTTCTGTGCGCGGCAGCAGAGGGCCGATGG
CTCCTGGGAAGGCTCCTGGGGAGTTTGCTTACCTACGGCACCTGGTTTGGCCTGGAGGCCCTTCGCCGTATGGG
GCAGACCTACCGAGATGGGACTGCCTGTGCAGAGGTCTCCCGGGCCTGTGACTTCTGCTGTCCCGGCAGATGGC
AGACGGAGGCTGGGGGGAGGACTTTGAGTCTGCGAGGAGCGGCGTTATTTGCAGAGTGCCAGTCCCAGATCCA
TAACACATGCTGGGCCATGATGGGGCTGATGGCCGTTCCGGCATCTGACATCGAGGCCAGGAGAGAGGAGTCCG
GTGTCTACTTGAGAAACAGCTCCCAATGGCGACTGGCCGCAGGAAAACATTGCTGGGGTCTTCAACAAGTCCGT
TGCCATCTCTACACGAGCTACAGGAACATCTTCCCCTCTGGGCCCTCGGCCGCTTCTCCCAGCTGTACCCTGA
GAGAGCCCTTGTGGCCACCCCTGAGAACATGCCTACCTGCTGGGTGCCGTCTGTGCGTTCCAGTGAGGCCAAGG
GGTCTTGCCGGGTTGGGGAGCCCTCCCATAAACCCTGTCTTGGGCTCCAACCCCTCAACCTCTATCTCATAGATG
TGAATCTGGGGGCCAGGCTGGAGGCAGGGATGGGGACAGGGTGGGTGGCTTAGACTCTTGATTTTTACTGTAGGT
TCATTTCTGAAAGTAGCTTGTGCGGCTTGGGTGAGGAAGGGGGCACAGGAGCCGTGACCCCTGAGGAGGCACAGC
GCCTTCTGCCACCTCTGGGCACGGCCTCAAGGTAGTGAGGCTAGGAGGTTTTTTCTGACCAATAGCTGAGTTCTT
GGGAGAGGAGCAGCTGTGCCTGTGTGATTCTTAGTGTGAGTGGGCTCTGGGCTGGGGTGGGCCCTGGGCAGGC
TTCTCCTGCACCTTTTGTCTGCTGGGCTGAGGGACACGAGGGCAACCCCTGTGACAATGGCAGGTAGTGTGCATCC
GTGAATAGCCCAGTGCGGGGTTGCTCATGGAGCATCTGAGGCCGTGCAGCAGGGAGCCCCATGCCCTGGGTC
GTGAGCTTGCTGCGTATGGGGTGGTGTGATGGAGCCTCATGCCCTGGGTCGTGAGCTCGCCTGAGTATGGGGT
GGTGTGATGGAGCCGCATACCCCTGGGTTGTGAGCTCGCCTGCATATGCAGGGTCTGTGATGAACATCCCAAGT
CTGTGCAGCAGGGAGCCCCATGCCCTGGGACATGAACCCACCTGCGTGGAATGCTGTTTGTGAGGTGTCTACAG
GGTTTATAGTAGTCTTGTGGACACAGAAATGCACAGGGGACACTTACGGACACAGA

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FIGURE 5932

MTEGTCLRRRGGPYKTEPATDLGRWRLNCERGRQTWYTLQDERAGREQTGLEAYALGLDTKNYFKDLPKAHTAFE
GALNGMTFYVGLQAEDGHWTGDYGGPLFLLPGLLITCHVARIPLPAGYREEIVRYLRSVQLPDGGWGLHIEDKST
VFGTALNYVSLRILGVGPDDPDLVRARNILHKKGGAVAIPSWGKFWLAVLNVYSWEGNLTLFPEMWLFPDWAPAH
PSTLWCHCRQVYLPMSYCYAVRLSAAEDPLVQSLRQELYVEDFASIDWLAQRNNVAPDELYTPHSWLLRVVYALL
NLYEHHS SAHLRQRAVQKLYEHIVADDRFTKSIISIGPISK TINMLVRWYVDGPASTAFQEHVSRIPDYLWMGLDG
MKMQGTNGSQIWDTAFAIQALLEAGGHRPEFSSCLQKAHEFLRLSQVPDNPPDYQKYRQMRKGGFSFSTLDCG
WIVSDCTAEALKAVLLLQEKCPHVTEHIPRERLCDAVAVLLNMRNPDGGFATYETKRGGHLELLNPSEVFGDIM
IDYTYVECTSAVMQALKYFHKRFPEHRAAEIRETLTQGLEFCRRQQRADGSWEGSWGVCFTYGTWFGLEAFACMG
QTYRDGTACAEVSRACDFLLSRQMADGGWGEDFESCEERRYLSAQSQIHNTCWAMMGLMAVRHPDIEAQERGVR
CLLEKQLPNGDWPQENIAGVFNKSCAISYTSYRNIFPIWALGRFSQLYPERALAGHP

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FIGURE 5933A

GTAATACTTAATTACCTTCTAATAATTGGAGCAGAAGATGAACCCAACTAATCCTTTTCAGTGGGCAGCAGCCTAG
TGCTTTTTTCGGCGTCTTCTAGTAATGTAGGAACACTTCCATCTAAGCCGCCATTTTCGATTTGGTCAACCTTCTCT
TTTTGGACAAAACAGTACCTTATCTGGGAAGAGCTCGGGATTTTTCACAGGTATCCAGCTTTCCAGCGTCTTCTGG
AGTAAGTCATTCCCTCTTCAGTGCAAAACATTAGGGTTACCCAAACCTCAAGTGTTGGACCCTTTTCTGGACTTGA
GCACACTTCCACCTTTGTGGCTACCTCTGGGCCTTCAAGTTTCATCTGTGCTGGGAAACACAGGATTTAGTTTTAA
ATCACCACACAGTGTGGGGCTTTCCCAAGCACTTCTGCTTTTGGACAAGAAGCTGGAGAAATAGTGAACCTCTGG
TTTTGGGAAAACAGAAATTCAGCTTTAAACCTCTGGAAAATGCAGTGTTCAAACCAATACTGGGGGCTGAATCTGA
GCCAGAGAAAACCCAGAGCCAAATTGCTTCTGGGTTTTTTACATTTTCCCACCCAATTAGTAGTGCACCTGGAGG
CCTGGCCCCCTTCTCTTTTCTCAAGTAACAAGTAGTTTCAGTACCACCTTCAAATTTTACCTTTTCAAACCTGT
TAGTAGTAATAATTCAATTATCTGCCTTTACCCCTGCTTTGTCAAACCAAATGTAGAGGAAGAGAAGAGAGGACC
TAAGTCAATATTTGGAAGTTCTAATAATAGCTTCAGTAGCTTCCCTGTATCATCTGCGGTTTTGGGCGAACCTTT
CCAGGCTAGCAAAGCAGGTGTGAGGCAGGGGTGTGAAGAAGCTGTTTCCCAGGTGGAACCACTTCCCAGCCTAAT
GAAAGGACTGAAAAGGAAGGAGGACCAGGATCGCTCCCCAAGGAGACATGGCCACGAGCCAGCAGAAGATTCCGA
TCCTCTGTCCCGGGGCGATCATCTCCAGACAAACGACCTGTCCGCCTGAATCGACCCCGGGGAGGTACTTTATT
TGGTCGGACGATACAGGATGTTTTCAAAGCAATAAGGAAGTAGGTCTGTCTGGGCAACAAGGAGGCCAAAAAGGA
AACTGGCTTTGTTGAGTCTGCAGAAAGTGACCACATGGCTATCCCAGGAGGGAATCAGTCTGTCTGGCACCTTC
CCGATTCCAGGTGTGAATAAAGAGGAAGAAACTGAAAGTAGAGAGAAGAAAGAAGATTCTTAAGAGGAACCTCC
GGCGCTCAGAGTAACAGAAGCGAGAGCACAGACAGTCTTGGGGGCTTGTCTCCCTCTGAAGTCACAGCCATCCA
GTGCAAGAACATCCCTGACTACCTCAACGACAGGACCATTTCTGGAGAACCATTTTGGCAAAATTGCTAAAGTGCA
GCGCATCTTTACCAGGCGCAGCAAAAAGCTTGCAAGTGGTACATTTCTTTGATCATGCATCTGCAGCCCTGGCTAG
AAAGAAGGGGAAAAGTTTGCATAAAGACATGGCTATCTTTGGCACAGGAAGAAAATAAGCCCCAATAAGAAACC
CTTTTCCCTGAAGGAGAAGAAACCAGGTGACGGTGAAGTCAGCCCGAGCACAGAGGATGCACCCTTTCAGCACTC
TCCTCTTGGCAAGGCCGAGGGAGGACTGGTGTAGCAGCCTCCTGAATAAAAGCTCTCCAGTGAAGAAGCCAAG
TCTTCTAAAGGCCACCAATTTCGAGGGAGACTCTTTGACTCAGCCTCCGAGGGCTCCGAGGGCCTCGGGCCATG
TGTGCTCTCCCTCAGTACCCTGATAGGCACTGTGGCTGAGACATCCAAGGAGAAGTACCGCCTGCTTGACCAGAG
AGACAGGATCATGCGCAAGCTCGGGTGAAGAGAACCGATCTGGACAAAGCGAGGACTTTTGTGGCACCTGCCT
GGATATGTGTCTGAGAAGGAGAGGTACATGCGGGAGACCCGTAGCCAGCTGAGCGTGTTTCAAGTGGTCCCAGG
GACTGACCAGGTGGACCACGAGCAGCTGTGAAAGAGTACAGTCCGTCTCGGCGGATCAGGAGGAGCCCCTGCC
CCACGAGCTGCGGCCCTTGCCAGTGCTCAGCAGGACCATGGACTACCTGGTGACCCAGATCATGGACCAGAAGGA
GGGAGCCTGCGGGATTGGTATGACTTCGTGTGGAACCGCACGCTGGCATAACGAAGGATATCAGCAGCAGCA
CCTCTGTGACCCCTGACGGTGTCCCTGATTGAGAAGTGCACCCGGTTTACATCCACTGTGCCACTTCATGTG
TGAGGAGCCCATGTCTCTTTGATGCCAAGATCAATAATGAGAACATGACCAAGTGCCTGCAGGACCTGAAGGA
GATGTACCAGGACCTGAGAAACAAGGGTGTCTTCTGTGCCAGCGAAGCGGAGTTCCAGGGCTACAATGTTCTGCT
CAGTCTCAACAAGGGAGACATCCTAAGAGAAGTACAACAGTTCCATCCTGCTGTTAGAAACTCATCTGAGGTGAA
ATTTGCTGTTTCAAGCTTTTGTGTCATTGAACAGTAATAATTTTGTGAGATTTTCAAACCTGGTCCAGTCAGCTTC
TTACCTGAACGCTTGTCTTTTACACTGTTACTTCAGTCAGATCCGCAAGGATGCTCTCCGGGCGCTCAACTTTGC
GTACACGGTGAGCACACAGCGATCTACCATCTTTCCCTGGATGGTGTGGTGCGCATGCTGCTGTTTCAAGACTG
TGAAGAGGCCACCGACTTCCTCACCTGCCACGGCCTCACCGTTTCCGACGGCTGTGTGGAGCTGAACCGGTCTGC
ATTCCTGGAACCAGAGGGATTATCCAAGACCAGGAAGTCGGTGTATTACTAGGAAGCTGACGGTGTGAGTCGG
GGAAATTGTGAACGGAGGGCCATTGCCCCCGTCCCTCGTACACCCCTGTGTGCAGCTTCAACTCCCAGAACAA
GTACATCGGGGAGAGCCTGGCCGCGGAGCTGCCCCGTGACACCCAGAGACCCGGCTCCGACACAGTGGGCGGAGG
GAGAGGAGAGGAGTGTGGTGTAGAGCCGGATGCACCCCTGTCCAGTCTCCACAGTCTCTACCAGCCCCCTGCGCC
CTCACCAGTGCCTCTGCCTCCTGTCTGGCACTGACCCCGTGTGTGGCGCCAGCCTCTTCCAGCTGTCTGTGCA
GCCTGAACCACCGCCTCCAGAGCCCGTGCCCATGTACTCTGACGAGGACCTGGCGCAGGTGGTGGACGAGCTCAT
CCAGGAGGCCCTGCAGAGGGACTGTGAGGAAGTTGGCTCTGCGGGTGTGCTACGAGCTGCCGCCCTGGGTGT
TTCTAATGCTGCTATGGAGGATTGTGTTAACAGCTGCAACCACGGGCATTTTGAAGGCACATTGCAGCTGAAGAAGT
GTCTAAGGAAAGAGAGCGAAGGGAGCAGGAGAGGCAGCGGGCTGAAGAGGAAAGGTTGAAACAAGAGAGAGAGCT
GGTGTAAAGTGAGCTGAGCCAGGGCCTGGCCGTGGAGCTGATGGAACGCGTGATGATGGAGTTTGTGAGGGAAAC

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FIGURE 5933B

CTGCTCCCAGGAGTTGAAGAATGCAGTAGAGACAGACCAGAGGGTCCGTGTGGCCCCGTTGCTGTGAGGATGTCTG
TGCCCACTTAGTGGACTTGTTTTCTCGTGAGGAAATCTTCCAGACTGCAAAGGAGACCCCTCCAGGAGCTTCAGTG
CTTCTGCAAGTATCTACAGCGGTGGAGGGAAGCTGTACAGCCCAGCAAGAACTGAGGCGCCAAATGCGGGCTTT
CCCTGCTGCGCCCTGCTGCGTGGACGTGAGCGACCGGTGAGGGCGCTGGCGCCAGCGCAGAGTGCCCCATTGC
TGAAGAGAACCTGGCCAGGGGCTCCTGGACCTGGGCCATGCAGGGAGATTGGGCATCTCTTGACCCAGGTTAAG
GCGGCTCAGAAACAAGACAGCTCACCAGATGAAGGTTTACGACTTCTACCAGCAGCTGCTGAGTGATGTGGCATG
GGCGTCTCTGGACCTGCCATCCCTCGTGGCTGAGCACCTCCCTGGGAGGCAGGAGCATGTGTTTTGGAAGCTGGT
GCTGGTGTGCCGGATGTAGAGGAGCAGTCCCCAGAGAGTTGTGGCAGAATTCTAGCAAATTGGTTAAAAGTCAA
GTTTCATGGGAGATGAAGGCTCAGTGGATGACACATCCAGCGATGCTGGTGGGATTACAGACGCTTTCGCTTTTCAA
CTCACTTAGCAGCAAAGGGGATCAGATGATTTCTGTTAACGTGTGTATAAAGGTGGCCCATGGCGCCCTCAGTGA
TGGTGCCATTGATGCTGTGGAGACACAGAAGGACCTCCTGGGAGCCAGTGGGCTCATGCTGCTGCTTCCCCCAA
AATGAAGAGTGAGGACATGGCAGAGGAGGACGTGTACTGGCTGTTCGGCCTTGCTGCAGCTCAAGCAGCTCCTGCA
GGCTAAGCCCTTCCAGCCTGCGCTTCCTCTGGTGGTTCTTGTGCCTAGCCCAGGAGGGGACGCCGTTGAGAAGGA
AGTAGAAGATGGTCTGATGCTACAGGACTTGGTTTTCAGCTAAGCTGATTTTACAGATTACACTGTTACCGAGATCCC
TGATACCATTAAATGATCTACAAGGTTCAACTAAGGTTTTGCAAGCAGTGCAGTGGCTGGTTTCCCACTGCCCCCA
TTCCCTTGACCTCTGCTGCCAGACTCTCATTACGTACGTGCAAGACGGGATTGGCCATGAGTTTGTGGCCGCTT
TTTCCATGACAGAAGAGAGAGGCGTCTGGGCGGTCTTGTCTCTCAGGAGCCTGGCGCCATCATTGAGCTGTTTAA
CAGTGTGCTGCAGTTTCTGGCTTCTGTGGTGTCTCTGAACAGCTGTGTGACCTGTCTGGCCTGTCACTGAGTT
TGCTGAGGCAGGGGGCAGCCGGCTGCTTCTCACCTGCACTGGAATGCCCCAGAGCACCTGGCCTGGCTGAAGCA
GGCTGTGCTCGGGTTCCAGCTTCCGCAGATGGACCTTCCACCCCTGGGGGCCCCCTGGCTCCCCGTGTGCTCCAT
GGTGTGCCAGTACGCCTCCCAGATCCCCAGCTCACGCCAGACACAGCCTGTCTCCAGTCCCAGGTGGAGAACCT
GCTCCACAGAACCTACTGTAGGTGGAAGAGCAAGAGTCCCTCCCCAGTCCATGGGGCAGGCCCTCGGTTCATGGA
GATCCCATGGGATGATCTTATCGCCTTGTGTATCAACCACAAGCTGAGAGACTGGACGCCCCCGGCTTCTGT
TACATCAGAGGCGCTGAGTGAAGATGGTCAGATATGTGTGATTTTTTTTAAAAACGATTGAAAAAATATGATGT
TCCTTTGTCTGGGAACAAGCCAGGTTGCAGACGCAGAAGGAGCTACAGCTGAGAGAGGGACGTTTGGCAATAAA
GCCTTTTCATCCTTCTGCAAACAATTTTCCCATACATTGCTTCACATGCACCGTAACCTGGAAGAGGAGCACAGA
GTGTGCTCAAGAGGGGAGGATTCCCAGCACAGAGGATCTGATGCGAGGAGCTTCTGCTGAGGAGCTCTTGGCGCA
GTGTTTGTGCGAGCAGTCTGCTGCTGGAGAAAGAAGAGAACAAGAGGTTTGAAGATCAGCTTCAGCAATGGTTGTC
TGAAGACTCAGGAGCATTTACGGATTTAACTTCCCTTCCCCTCTATCTTCTCAGACTCTAGTGTCTCTTCTCA
CACTATTGAACCTGTGATGAAAACATCTGTAACCTACTAGCCCACAGAGTGACATGATGAGGGAGCAACTGCAGCT
GTCAGAGGCGACAGGAACGTGTCTAGGCGAACGACTAAAGCACCTGGAAAGGCTGATCCGGAGTTCAAGGGAAGA
GGAAGTTGCCTCTGAGCTCCATCTCTCTGCGCTGCTAGACATGGTGGACATTGAGCAGCCTGACCTGTGGGGAG
GGGGTCTCTCCGAAGAGTTTCTGTTTTTACTCAAATAATGTTATTCTCAGATGCTTGATGCACTGTTGGAAT
GTGATTAATTTAATCATGCAGATAAACCATTTAAATGTC

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FIGURE 5934

MNPTNPFSGQQPSAFSASSSNVGTLPSPKPPFRFGQPSLFGQNSTLSGKSSGFSQVSSFPASSGVSHSSSVQTLGF
TQTSSVGPFSGLEHTSTFVATSGPSSSSVLGNTGFSFKSPTSVGAFPSTSAFGQEAGEIVNSGFGKTEFSFKPLE
NAVFKPILGAESEPEKTQSQIASGFFTFSHP ISSAPGGLAPFSFPQVTSSSATTSNFTFSKPVSSNNSLSAFTPA
LSNQNVEEEEKRGPKSIFGSSNNSFSSFPVSSAVLGEPFQASKAGVRQGCCEAVSQVEPLPSLMKGLKRKEDQDRS
PRRHGHEPAEDSDPLSRGDHPPDKRPVRLNRPRGGTLFGRTIQDVFKSNKEVGRLGNKEAKKETGFVESAESDHM
AIPGGNQSVLAPSRIPGVNKEEETESREKKEDSLRGTTPARQSNRSESTD SLGGLSPSEVTAIQCKNIPDYLNDRIT
ILENHFGKIAKVQRIFTRRSKKLAVVHFFDHASAAALARKKKGKSLHKDMAIFWHRKKISPNNKKPFSLKEKKPGDGE
VSPSTEDAPFQHSPLGKAAGRTGASSLLNKSSPVKKPSLLKAHQFEGDSFDSASEGSEGLGPCVLSLSLTIGTVA
ETSKEYRLLDQDRIMRQARVKRTDLDKARTFVGTCCLDMCEKERYMRETRSQLSVFEVVPGTDQVDHAAAVKE
YSRSSADQEEPLPHELRLPLVLSRTMDYLVTQIMDQKEGSLRDWYDFVWNRTRGIRKIDITQQHLCPLTVSLIEK
CTRFHIHCAHFMCCEPMSSFDAKINNENMTKCLQSIKEMYQDLRNKGVFCASEAEFQGYNVLLSLNKGDIILREVQ
QFHPAVRNSSEVKFAVQAFALNSNNEVRFKLVQSASYLNACLLHCYFSQIRKDALRALNFAYTVSTQIRSTIFP
LDGVVRMLLFRDCEEATDFTLCHGLTVSDGCVELNRSFALEPEGLSKTRKSVFITRKLTVSVGEIVNGGPLPPVP
RHTPVCFSNSQNKYIGESLAAELPVSTQRPGSDTVGGGRGEECGVEPDAPLSSLPQSLPAPAPSPVPLPPVLALT
PSVAPSLFQLSVQPEPPPEPVPVMSDEDLAQVVDLIEALQRDCEEVGSAGAAAYAAAALGVSNAAEMDLLTAA
TTGILRHIAAEVSKERERREQERQRAEEERLQERELVLSSELSQGLAVELMERVMMEFVRETCSQELKNAVETD
QVRVARCCEDVCAHLVDLFLVEEIFQTAKETLQELQCFCKYLQRWREAVTARKKLRRQMRAPPAAPCCVDVSDR
LRALAPSAECPIAEENLARGLLDLGHAGRLGISCTRLRLRNKTAHQMKVQHFYQQLLSDVAWASLDLPSLVAEH
LPGRQEHVFWKLVLVLPDVEEQSPESCGRILANWLKVFMGDEGSVDDTSSDAGGIQTLSLFLNSLSKGDQMISV
NVCIKVAHGALSDGAIDAVETQKDLLGASGLMLLLPPKMKSEDMAEEDVYWLSALLQLKQLLQAKFPQALPLVV
LVPSPGGDAVEKEVEDGLMLQDLVSAKLISDYTVTEIPDTINDLOGSTKVLOAVQWLVSCHPHSLDLCCQTLIQY
VEDGIGHEFSGRFFHRRERRRLGGLASQEPGAI IELFNSVLQFLASVVSSEQLCDLSWPVTEFAEAGGSRLPLHL
HWNAPHLAWLKQAVLGFQLPQMDLPPLGAPWLPVCSMVVQYASQIPSSRQTQPVLSQVENLLHRTYCRWKS
PSPVHGAGPSVMEIPWDDLIALCINHKL RDWTPPRLPVTSEALSEDGQICVYFFKNDLKKYDVPLSWEQARLQTQ
KELQLREGR LAIKPFHP SANNFPIPLLHMRNWK RSTEC AQEGRI PSTEDLMRGASAEELLAQCLSSSLLEKEE
NKR FEDQLQQLSEDSGAFTDLTSLPLYLPQTIVLSLSHTIEPVMKTSVTTSPQSDMMREQLQLSEATGTCLGERL
KHLERLIRSSREEEVASELHLSALLDMVDI

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FIGURE 5935

TGCCGCCCAGGACCCGCGAGCAGAGACGACGCCTGCAGCAAGGAGACCAGGAAGGGGTGAGACAAGGAAGAGGATG

TCTGAGCTGGAGAAGGCCATGGTGGCCCTCATCGACGTTTTCCACCAATATTCTGGAAGGGAGGGAGACAAGCAC
AAGCTGAAGAAATCCGAACTCAAGGAGCTCATCAACAATGAGCTTTCCCATTTCTTAGAGGAAATCAAAGAGCAG
GAGGTTGTGGACAAAGTCATGGAAACACTGGACAATGATGGAGACGGCGAATGTGACTTCAGGAATTCATGGCC
TTTGTGGCCATGGTTACTACTGCCTGCCACGAGTTCTTTGAACATGAGTGAGATTAGAAAGCAGCCAAACCTTTC
CTGTAACAGAGACGGTCATGCAAGAAAGCAGACAGCAAGGGCTTGCAGCCTAGTAGGAGCTGAGCTTTCCAGCCG
TGTTGTAGCTAATTAGGAAGCTTGATTTGCTTTGTGATTGAAAAATTGAAAACCTCTTTCCAAAGGCTGTTTTAA
CGGCCTGCATCATTCTTTCTGCTATATTAGGCCTGTGTGTAAGCTGACTGGCCCCAGGGACTCTTGTTAACAGTA
ACTTAGGAGTCAGGTCTCAGTGATAAAGCGTGACCCGTGCAGCCCGCCATGGCCGTGTAGACCCTAACCCGGAGG
GAACCCTGACTACAGAAATTACCCCGGGGCACCCTTAAACTTCCACTACCTTTAAAAAACAAAGCCTTATCCAG
CATTATTTGAAAACACTGCTGTTCTTTAAATGCGTTCCCTCATCCATGCAGATAACAGCTGGTTGGCCGGTGTGGC
CCTGCAAGGGCGTGGTGGCTTCGGCCTGCTTCCCGGGATGCGCCTGATCACCAGGTGAACGCTCAGCGCTGGCAG
CGTCCTGGAAAAAGCAACTCCATCAGAACTCGCAATCCGAGCCAGCTCTGGGGGCTCCAGCGTGGCCTCCGTGAC
CCATGCGATTCAAGTCGCGGCTGCAGGATCCTTGCTCCAACGTGCCTCCAGCACATGCGGCTTCCGAGGGCACT
ACCGGGGGCTCTGAGCCACCGCGAGGGCCTGCGTTCAATAAAAAAG

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FIGURE 5936

MSELEKAMVALIDVFHQYSGREGDKHKLKKSELKELINNELSHFLEEIKEQEVVDKVMETLDNDGDGECDFQEFM
AFVAMVTTACHEFFEHE

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FIGURE 5937

CGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGCGCGTGGGCTTTGCTGGCGGGCGGGC
GCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCCGAGGTGCTATGCTGTGGGCCCCGCTCAGAGCCCACCCAC
CTTTGGGTTCTGTGGACATCGATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTGCTCTGAAAGCCTT
CCGAAGGCTGGTGAACCTCCAGGGGCAGCTGCGGGTGCCCGTGCTTTTGTACAAATGCTGGGAACATCTTACA
ACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTATCCTCTCTCACAG
CCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCGTGATGGAAAATGC
CCAGGGACTGGGCTTCCGAAATGTCGTACCCGTGGATGAGCTGCGGATGGCCTTTCCTCTGCTTGACATGGTGGA
CCTGGAGCGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGGTGCTCCTCCTAGG
GGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCAGCAATGGGAGCCCTGGGGCTGG
CCTGGCAACACCCCCCTACCCCCACCTCCCCGTCTAGCCAGCAACATGGATCTCCTGTGGATGGCTGAAGCCAA
GATGCCAGGTTTGGACATGGCACCTTCTGCTGTGCCTGGAAACCATTACCAGAAAGTGACGGGCAAGGAGCT
GAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGATCAGGCGACAGGC
GGAGAGGCGGGGCTGGGCCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCATATGCTGACGTATACGG
CGCCAACCTGTTCACCAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAAGTAGGGGCCGGGGGCACACG
GCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACAATCCCAGGAACCC
ACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCACCGAGACTTATGCTTCAGTCCAGG
GCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCAAGGAGGGCTGGGC
TTTGAGTGAAGGCGAGTGCGGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCATTTGGCTGGGCTCT
GGCCTGATCACTGGGCTCAGGTGAGGGCTTGGTTCCCTTGCCACCCTTCTTGCTGCCCCATGAGTGTGGCATTAC
TGGTCACTTGAAGAAGACAGTGACTCTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGGTTGGAATTTCTG
GGCCAGTTCCACGTGCCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCTGTGTGCCTCAGTGTCTCT
CTCATTTTCACTAGGGAAGTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGCAGAGCCTTTGCCG
GCACTGAAGGCATGCAGCCTGTGCGGCAGAGTGTCTTAACACCAGATGCTACTTTTACTGTATTGTAGTTTATTG
CCCGGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGACTCTTGTGA

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FIGURE 5938

MAAWGCVAALGAARGLCWRAARAAAGLQGRPARRCYAVGPAQSPPTFGFLLDIDGVLVRGHRVIPAALKAFRRLV
NSQGQLRVPVVFVTNAGNILQHASKAQELSALLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAQGLG
FRNVVTVDELRFMAFPLLDMDLERRLKTTPLPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATP
PYPHLPVLASNMDLLWMAEAKMPRFHGTFLLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRRQAERRG
WAAPIRKLYAVGDNPMSDVYGANLFHQYLQKATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTE
PVLGGGEPPFHGHRDLCFSPGLMEASHVVNDVNNEAVQLVFRKEGWALE

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FIGURE 5939

GTGCACGTGCGCACGGCGACGGCCGGATGGCTGCGTGGGGCTGTGTGGCTGCGCTCGGCGCGGGCGCGTGGGCTTT
GCTGGCGGGCGGCGCGCGCGGCTGCGGGGCTCCAGGGCCGCCCCGCCCCGAGGTGCTATGCTGTGGGCCCCGCTC
AGAGCCCACCCACCTTTGGGTTCTGTGGACATCAATGGAGTGCTTGTGCGGGGCCACAGAGTGATCCCTGCTG
CTCTGAAAGCCTTCCGAAGGCTGGTGAACCTCCAGGGGAGCTGCGGGTGCCCGTGGTTTTTTGTACAAATGCTG
GGAACATCTTACAACACAGCAAAGCCCAGGAGCTGTCAGCCCTGCTGGGGTGCGAGGTGGATGCAGACCAAGTTA
TCCTCTCTCACAGCCCCATGAAGCTCTTCTCCGAGTACCATGAGAAGCGGATGCTGGTGTCTGGACAGGGGCCCCG
TGATGGAAAATGCCCAGGGAGTGGGCTTCCGAAATGTCGTACCCGTGGATGAGCTGCGGATGGCCTTTCTCTGCTC
TTGACATGGTGGACCTGGAGCGGGCGGCTAAAGACCACGCCCCCTCCCGAGGAATGACTTCCCCCGCATTGAAGGGG
TGCTCCTCCTAGGGGAGCCGGTCCGCTGGGAGACCAGCCTGCAGCTGATCATGGATGTCTCCTCCTACGAATGGGA
GCCCTGGGGCTGGCCTGGCAACACCCCCCTACCCCCACCTCCCCGTCTAGCCAGCAACATGGATCTCCTGTGGA
TGGCTGAAGCCAAGATGCCCAGGTTTGGACATGGCACCTTTCTGCTGTGCTGGAAACCATTACCAGAAAAGTGA
CGGGCAAGGAGCTGAGATACGAGGGCCTGATGGGCAAACCCAGCATCCTCACTTACCAGTATGCCGAGGACCTGA
TCAGGCGACAGGCGGAGAGGCGGGGCTGGGCGCCCCCATCCGGAAGCTCTATGCTGTGGGTGATAACCCATATGT
CTGACGTATACGGCGCCAACCTGTTCCACCAAGTACCTGCAGAAGGCAACGCATGATGGGGCGCCAGAACTAGGGG
CCGGGGGCGACACGGCAGCAACAGCCCTCAGCAAGCCAGAGCTGCATCTCCATCCTGGTGTGTACAGGCGTCTACA
ATCCCAGGAACCCACAGTCCACGGAGCCTGTCTTGGAGGAGGGGAGCCTCCATTCCACGGGCGCCGAGACTTAT
GCTTCAGTCCAGGGCTCATGGAGGCCTCCACGTGGTGAATGACGTGAATGAGGCTGTGCAGCTGGTCTTCCGCA
AGGAGGGCTGGGCTTTGGAGTGAGGGCAGTGCAGTGGAGGTGAGGGGGTGAGCCTGGACCTGTGGGCGAGTCCCA
TTGGCTGGGCTCTGGCCTGATCACTGGGCTCAGGTCAGGGCTTGGTTCCCTTGCCACCCTTCTTGTGCCCCATG
AGTGTGGCATTACTGGTCACTTGAAGAAGACAGTGACTCTTTTTCCCTGCTGGGTAGCATTTTGTATGGAACGG
TTGGAATTTCTGGGCCCAGTTCCCACGTGCCTTTCGTGGCAGTCTAACCTCAGGCCATTCTCTTCCCCTGTGTG
CCTCAGTGTCTTCTCATTTAGTAGGGACTTCTGAAATGGGGGAGGCAGTGTGGAATACTGTGGATGTCTGTGC
AGAGCCTTTGCCGGCACTGAAGGCATGCAGCCTGTGCGCAGAGTGTCTTAACACCAGATGCTACTTTTACTGTA
TTGTAGTTTATTGCCCCGAGATGTGGGGCTTTTTTTTTTAAATAAAATAATCATAATAAATGTTTCATGATGCTGAA
AAAAAAAAAAAAAAAA

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FIGURE 5940

MYAWFFLPFSFSQSPPTFGFLDIDGVLVRGHRVIPAALKAFRRLVNSQGQLRVPVVFVTNAGNILQHKAQELSA
LLGCEVDADQVILSHSPMKLFSEYHEKRMLVSGQGPVMENAGGLGFRNVVTVDLRFMAFPLDMVDLERRIKTTP
LPRNDFPRIEGVLLLGEPVRWETSLQLIMDVLLSNGSPGAGLATPPYPHLPVLASNMDLLWMAEAKMPRFHGHGT
LLCLETIYQKVTGKELRYEGLMGKPSILTYQYAEDLIRQAERRGWAAPIRKLYAVGDNPMSDVYGANLFHQYLQ
KATHDGAPELGAGGTRQQQPSASQSCISILVCTGVYNPRNPQSTEPVLGGGEPFPHGHRDLCFSPGLMEASHV
DVNEAVQLVFRKEGWALE

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FIGURE 5941

AGGAACCGGAACCCGCGGTTATAAAGTAAAGGAACCCGAGATCTGCGCAGGGGTTCCCTTTGCCGATTTCTCTCA
CCTCACCTTTCAAACCTAAACTCGAGCCTACTGTTACCGGCCTAGCATTGCTCTCGCCATGGCTCTCAGCGATG
CTGACGTGCAAAAGCAGATAAAGCATATGATGGCTTTTCATTGAACAAGAAGCCAATGAGAAAGCAGAAGAAATAG
ATGCAAAGGCAGAAGAAGAGTTCAACATAGAGAAAGGTCGGCTTGTGCAAACCCAAAGACTAAAGATTATGGAAT
ATTATGAGAAGAAAGAGAAACAGATTGAGCAGCAGAAGAAATTCAGATGTCCAATTTGATGAATCAAGCGAGAC
TCAAAGTCCTCAGAGCAAGAGATGACCTTATCACAGACCTACTAAATGAAGCAAAACAGAGACTCAGCAAGGTGG
TAAAAGATACAACCAGGTACCAAGTGCTGCTGGATGGACTGGTTCTCCAGGGTTTGTACCAGTTGCTGGAGCCCC
GAATGATTGTTTCGTTGCAGGAAACAAGATTTCCCTCTGGTAAAGGCTGCAGTGCAGAAGGCAATTCCTATGTACA
AAATTGCCACCAAAAAACGATGTTGATGTCCAAATTGACCAGGAGTCCTACCTGCCTGAAGACATAGCTGGTGGAG
TTGAGATCTATAATGGAGATCGTAAAATAAAGGTTTCCAACACCCTGGAAAGCCGGCTGGATCTCATAGCCCAGC
AGATGATGCCAGAAAGTCCGGGGAGCCTTGTTTGGTGCAATGCCAACAGGAAGTTTTTGGACTTAGCCTTCAGGA
GGTGGAGCTCGTCGTCAGCTCTCCTGCTGTGATGTGGAAGCTTCTGATATTTGAAGAAACACGAATGTCTCTGTA
GCTTCCTCTTCACTGCCCCAGTATTGCTCTGTATTTATCAGCGATGCCCCCTCTGTCACTCATGCCTTGCCATAAT
GTTCACAATGGTGGAAAGCTTCATGTAATATGATCAGGACCCACCTCCAGTTCTTCTGAAAGTGTGACAGTGTCC
AGCCGGTTCTGCAGCACTAGGGGAGGGGGCAGATGGTGGTTGCATGGGCTTCCTGGGTCTCCACTCTCCGTCTGG
CCTAAAGGTGATGTATTTGGTGTGGCCCTGCAGTCCCCACTCTTGAGGCTTAAGGCGCATGTGGCACACCACT
CCTTCCAGCAGTAGTCGCTTTACTGTTACCTGTTTAGGCCTAGAAGTTTTCCCTCATCTGTAAATGTGATTTAAA
ATCTAAGCCATGAATATGCTTTATTTATTAAAAGAGTTATGCGGATTTAATGTGA

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FIGURE 5942

MALSDADVQKQIKHMAFIEQEANEKAAEIDAKAEEEFNIEKGRVQTQRLKIMEYYEKKEKQIEQQKKIQMSNL
MNQARLKVLRARDDLIITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAQVQK
AIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNLTLESRLDLIAQQMMPEVRGALFGANANRKFL
D

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FIGURE 5943A

GAAGAGTCCAGTGAAGCCGGGAACCAGAGGCTCCAGCAGGTCA**ATG**CACGCGGCGGATCCTCTGGAGATCCAGGCT
GACGTGCACTGGACTCATATCCGTGAGAGAGAGGAGGAAGAGAGGATGGCGCCGGCCTCTGAGTCCTCTGCTTCC
GGAGCCCCATTGGATGAGAATGACCTAGAGGAAGATGTGGACTCAGAACCAGCCGAGATAGAAGGGGAGGCAGCA
GAGGATGGGGACCCAGGGGACACTGGTGCTGAGCTGGATGATGATCAGCACTGGTCTGACAGCCCGTCGGATGCT
GACAGAGAGCTGCGTTTGCCGTGCCAGCTGAGGGGGAAGCAGAGCTGGAGCTGAGGGTGTGCGAAGATGAGGAG
AAGCTGCCCGCCTCACCGAAGCACCAGAGAGAGGTCCCTCCCAAGCCACCAGCCCCATCCGGTCTCCCCAGGAA
TCAGCTCTTCTGTTTCATTCAGTCCACAGCCCCCTCAACAGAGGGGGCCCCAACTCCCACCTGTCCCTGCCGCCACC
CAGGAGAAATCACCTGAGGAGCGCCTTTTCCCTGAGCCTTTGCTCCCCAAAGAGAAGCCCCAAAGCTGATGCCCCC
TCGGATCTGAAAGCTGTGCACTCTCCCATCCGATCACAGCCAGTGACCCTGCCAGAAGCTAGGACTCCTGTCTCA
CCAGGGAGCCCGCAGCCCCAGCCACCCGTGGCGGCTCCACGCCCCCACCAGCCCACTCCCCATCTGCTCCAG
CCCCAGCCTTCCACCGAGGCCACTGTCCCATCCCTACCCAGTCCCCCATAAGCTTCCAGCCTGCCCGGCCAAA
ACATCCACCCCACTGGCCCCCTCCTCCTGTCCAAAGCCAAAGTGACACCAAGGACAGACTGGGCAGCCCCCTTGCT
GTGGATGAGGCCCTCAGACGGAGCGACCTGGTGAGGAGTTCTGGATGAAGAGTGCGGAGATCCGCCGAGCCTC
GGGCTCACACCTGTGGACCGCAGCAAGGGGCCGAGCCAGCTTCCCCACGCCTGCCTTCAGGCCAGTGTCCCTC
AAATCCTATTCCGTTGAAAAGTCCCCCAGGATGAGGGACTCCACCTTCTCAAGCCTCTGTCCATCCCCAAAAGG
CTGGGCCTGCCAAAGCCGGAAGGCGAGCCGTTGTCCCTGCCAACCCCCCGGTCCCCGTCCGACAGAGAGCTACGC
AGCGCCAGGAGGAGCGCAGGGAGCTGTCCAGCAGCTCTGGCCTGGGCCTGCACGGGAGCTCCTCAACATGAAG
ACACTGGGCAGCCAGAGCTTCAACACCTCGGACTCCGCCATGCTCACGCCCCCTCCAGCCCCCCCCACCGCCA
CCCCCGGGCAGGAGCCCCGCCACCTTGGCGAGGAAGCTCAGGGAGGCCGAGCCCCAATGCCTCGGTGGTCCGCGG
CCCTTGCCCCGCCACCTGGATGCGGCCCCCCCGGGAGCCTGCTCAGCCCCCAGAGAGGAGGTGCGGAAGTCGTTT
GTGGAGAGCGTGGAGGAGATTCCCTTTGCTGATGATGTGGAGGACACCTATGACGACAAGACTGAGGACTCAAGC
CTGCAGGAGAAATTCTTACGCCCCGTCTGCTGGCCGCGCCCCGAGAAGCCTCGCCACCCGCCCTGGCCAAG
GAGAAGCGGAGGCTGCCTGCTCTGGAGGGGACGCTGCAGCCACAGAAGAGGGGGCTGCCCTTGGTGTCCGCGGAA
GCCAAGGAGTTGGCCGAGGAGCGCATGCGAGCCAGGAGAAGTCCGTGAAGAGCCAGGCGCTGCGGGACGCCATG
GCCAGGCAGCTGAGCAGGATGCAGCAGATGGAGCTGGCCTCAGGCGCCCCAGGCCCCGCAAGGCGTCTCAGCA
CCCTCCCAGGGCAAGGAGCGCGGCCCTGACTCCCCACAGCCCCACTCTCAGGGGCTCCGAGGAGCCACCCTG
AAGCATGAAGCCACCAGCGAGGAGGTCTCTCCCGCGCTCGGACTCAGGGGGCCAGATGGCTCTTTCACTTCA
TCCGAGGGCTCCAGTGGAAGAGCAAGAAGAGGTCTCACTCTTCTCCCCCGCAGAAACAAGAAGGAGAAGAAG
TCCAAAGGCGAGGGCCGCCCCCGGAGAAGCCAGCTCCAACCTCCTAGAAGAAGCCGCCGCCAAACCCAAGTCC
CTGTGGAAGTCCGTCTTCTCCGGGTACAAGAAGGACAAGAAGAAGGCGGACGACAAGTCTGCCCCAGCACC
CCCTCCAGCGGGGCCACGGTGGACTCTGGAAGCACAGGGTGCTTCCCGTCGTAAGGGCAGAGCTGCAGCTCCGG
CGCCAGCTGAGCTTCTCCGAGGACTCAGACCTCTCCAGCGACGATGTCTTGAGAAGTCTCACAGAAGTCCCGG
CGAGAGCCAAGAACCTACACGGAGGAGGAAGTGAATGCCAAGCTGACCCGGCGTGTGCAAAAGGCAGCTCGGAGA
CAGGCCAAGCAGGAGGAGCTTAAGCGGCTGCATCGAGCCAGATCATCCAGCGGCAGCTGCAGCAGGTGGAGGAG
AGGCAGCGGCGGCTGGAGGAAAGGGCGTGGCTGTGGAGAAGGCGCTCCGGGGCGAAGCAGGCATGGGCAAGAAG
GACGACCCCAAGCTGATGCAGGAGTGGTTCAAGCTAGTGCAAGGAGAAGAACGCCATGGTGCCTACGAGTCCGGAG
CTGATGATCTTTGCCCGGGAGCTGGAGCTGGAAGACCGGCAGAGTCGACTGCAGCAGGAGCTCCGGGAACGCATG
GCAGTGGAAGATCACCTTAAGACTGAGGAGGAGCTGTGAGAAGAGAAGCAGATTCTCAATGAGATGCTGGAGGTG
GTGGAGCAGAGAGACTCACTGGTGGCGCTGCTGGAGGAGCAGCGGCTCCGGGAGAGAGAGGAGGACAAGGACCTG
GAGGCTGCCATGCTGTCCAAGGGCTTCAGCCTTAAGTGGTCC**TGAG**CTCCACCCAACGCTCCATTTTCTGTTGG
CATCCGCCTGGCCAGGCAGTGGCATCCAACACCCGGAGCCGCGATCTGAGGAGGCCTGGCACCTCCTTGAGT
TTACGCTCAGATGCCCCGTGTGCTGCTTGGAAAGTGGTCGAGTCCCGCTGCAGTGGGGAGCCCCAGGTGACAGTG
GTTATCTGAGACGGCTCCACCTCCTGGGAGGAGGCCACCTGGACCTCCCACTCAGAGGAGCAGCACGGCGTGTA
TGGCATGACGCAGGGGACCACCCGCGCGCTCCCTGAGGATGTGCTGGCTGTGCCCTTTTTTCCACTGGCACAT
TTGGTAAGAGAGGGAAGCTGCTCCCCGTGAGAACCACAGTGCGCCGTGCGAGGGGCACTGTCTTCTTCATGCTCC
CTGGAGCACCACCAAAGAAACGTAAACAATACCCACGAAAGCAGGGTCAGGGGTCAGGGTGCATCGAGACCCA
GGATGGGGGCGTCCAGTCATGCCCCACCCAGCATCACAGGAGACATGGAGGTGCGGGCAGGCTCCTGAATTATTA
TGCAAATTAGGAGGACGCAGGAGGGGTCTGCCCTCCAGCCGAACACCACACACTGGACCCTAAGTGCCAAATGC

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FIGURE 5943B

CTGGGCCGCTTGCTGGCTGTGGCCTGAGGCTTGTGGGTTGCTGCATTTTGCTTGTAGTTCACAACCATTTTGACA
CTGGAAAATGCTGACTTTGGGGGACAGGATGAGGCCCTACATTCTAAGCCCCAGTTGGCAGACAGGCATTGTCC
CTGTTCCACATTTATGTGCGGACAGGAGATGACCTTTTCTCCGTGTTTTTCTGTGTTTGACGTTGAAATGAA
GCTGACAACCTGGCAAGACGCTCAGCCGCTTCAAACCTTTTTGTCAATTAACCTATTTTTTAATACCTGAAAAG
AAGTAACTTCGTTTGTGTATCTTTACTAGAGGAACTGATCACCTGCGCCCGGGTGCGGGAGCCACAGCGGCATCT
GGTGCCTTACGCGACCTGGTCCGGGGCTGCCCCGTGCTCCTCACGTGCATCTATTTATTAGCCTTTCTCTTCG
TATCACTGGCCTGGCTGGCATCAGGGAGCTGCCCAGAACCCCTGTGTGGGTCTCCTCACAGCTTTCTGTCCCT
CCTCCACCCGGTGCTGCTCACCCTGGCGCTAGACCATCTGGACCACTCATGTGATGAGGGTGCATTTCCGTTT
TGTTTTGGGCCAGGCCAACAGCAGAGCTGCCACTCTCACCTCCAGTGAGAATTCCGGCTCTGCAGAACTCGCC
CTTGCTCAGTTTGGGGGCCAGGGCATCACCTTCTCCGCACATATGTTAAAGAAGGTTTCAGGATGGGCCCTCA
TCCACACAGGCCAAGAGGGTGCAAGGTGGGACCCTGGAATCATGTGGCTGGTGAGAATTCCCTCCTCCAGCCTA
AGATTACCCAGACGGAAACGCGAGTGCTGCAGTGGATGCTGGGATGCAGGCTGGTGCCTCTCAAGCAGATCAGC
GACTCCCGCCCTTCTTCCGAAGGCGACGGGCACCTGCCTTGTGCCGATCTTCATGGGGACATAAAGGGCGAGC
CCCGAATCACTAGCTCCTATAGCCAACTGTTCTTTCTCACGGTTCCGCACCAGCCTGGCTGTGTACAGCTCAT
CAAGCCACTGAGCTAATCGGGGTGGGGTGCTTGTCCATCAAAGCAGTCAGCACATAGCCCAGCGAGGAGCCATCC
GGACCAGACCCGCTGCCAGGGGCGCTCCAGCCGCTGCCGCTCCGTGGGCTGGGGCCAGCTGGGAGCAGAGGC
CTGGCCCCCTCAAGGCGTCCCGCAGTGGAGCAGGCTGAGTGGCTGTGCTGACCTTGGGCTTTCCATGGGAACAC
ACTGTGCTTCAACTTGAACATTATCCCAGCTGCAAAGGAGCAAAGAACCTGTGTATCCTTGTCTGTCCAGAAG
CTGCCATCTCTCTCCCATGCACATCCGGGAGATAACGCCGCTAGTGGCCGCCACAGCGCTGATTCTCCACCTGTT
CTCACGTGAGGCAAAGGTCTCCTTTTCTTTCTTTTACTTAAAAAAGGGGAGAGGAGGGTTTCTAGATTCCATC
TTCAAACCCAGTCGTCCCATAAAAATTGGACGTGGGAAAAGACCTTCACTGCCTGCGTGGCCTTTCCAGACCTC
TCCTCGAATGCCACAAAACCGGTCCAGCCCCGGCAGAGCCGCCTTCGGCCCTTGTAGCTCCTGCTGGCCCCACAA
CAGGGAAACAGTTTGCAAAGTGGCTTGGAAGGAGTGTGGCCTAGGGATCTGCTGTAAGTGGCCAGACGTAGCAGG
AGAGCCAGTGTCACCTTCTGGTCCCTGGTCAGCCTTAACACTGTGGCATCCTCCACAGCACACAGGCAGCCTGC
AGTCTGGAAGGTGGACCCGAGCCTTTGCAGAGAGGCGCCGAGAGCCGAGGCCTGCGCCCCAGCCTTCTGCTCC
CGACTGTGAGGACACCCAGTTCTAGTAGAGCACTTTTTTAAAGCTCCCATTTTGTAAACCACTAGTTTGCGGTTG
ACTTGAGTACTCTGGTGACTTCTGCGTCAAGCGTTCTCAAGCTGTGAGAATGTGCGCAGCTCCAGGCAGGTTTT
CTCTCGGAGAGTTAAGTCTTCCCTTGAAGGCAGGGAAGCAGGATGGATACACATATATCACACGCATAAAACACC
AGGTGCGGGAGCAGCCCAGACTCAAGGCTGACTAAACTGGAGGCTGAATACCGTGGAGGTCCACATGCAGCTTCC
CTGGAGGGCAGGCCGAGGCGCTCCCGCCCTGGGCTTGAGGATGCTGCACCCCGTGGGCTTCCAGGCCTGCCCA
GATGATGCCCTTCAGGCCTCTGTCCCTGGCGGCCATCCTCAGGCCGATTTTGACCAGCAATGATAGACTCTTCTTA
ACCCTTTCAAAAATAAATTTTTCAGTGGGACAGAAAGGAGAGTTAAAAAACATTTTTTTTAAAGGTGGTAACATCTG
ACCCACAAAGGGAATGGGTCTGTTTTATGCAAAATAAAAGTTTTTCAAAT

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FIGURE 5944

MHAADPLEIQADVHWTHIREREEERMAPASESSASGAPLDENDLEEDVDSEPAEIEGEAAEDGDPGDTGAELDD
DQHWSDSPSDADRELRLPCPAEGEAELELRVSEDEEKLPA SPKHQERGPSQATSPIRSPQESALLFIPVHSPSTE
GPQLPPVPAATQEKSP EERLFPEPLLPKEKPKADAPSDLKAVHSPIRSQPVTLP EARTPVSPGSPQPQPPVAAST
PPPSPLPICSQPQPSTEATVPSTQSPIRFQPAPAKTSTPLAPLPVQSQSDTKDRLGSP LAVDEALRRSDLVEEF
WMKSAEIRRSGLGTPVDRSKGPEPSFPTPAFRPVSLKSYSVEKSPQDEGLHLLKPLSIPKRLGLPKPEGEPLSLP
TPRSPSDRELRS AQEERRELS SSSSGLGLHGSSSNMKT LGSQSFNTSDSAMLTPPSSPPPPPPPGEEPATLRRLR
EAEPNASVVPPPLPATWMRPPREPAQPPREEVKRSFVESVEEIPFADDVEDTYDDKTEDSS LQEKFFTPPSCWPR
PEKPRHPP LAKENGRLPAL EGTLPQKRG LPLVSAEAKELAEERM RAREKSVKSQALRDAMARQLSRMQQME LAS
GAPRPRKASSAP SQKERRPDSPT RPTLRGSE EPTLKHEATSEEVLSPPSDGGPDG SFTSSEGSSGKS KKRSSL
FSPRRNKKEKKS KGEGRPPEKPSSNL EEEAAKPKSLWKS VFSGYKKDKKKKAD DKSCPSTPSSGATVD SGKHRV
LPVVRAELQLRRQLSFSEDS DLSSDDVLEKSSQKSRR EPRTYTEEELNAKLTRRVQKAARRQAKQEELKRLHRAQ
IIQRQLQQVEERQRRLEERGVA VEKALRGEAGMGKKDDPKLMQEWFKLVQEK NAMVRYESELMIFARELELEDRO
SRLQQELRRERMAVEDHLKTEEELSEEKQILNEMLEVVEQRDSLVALLEEQRLREREEDKDLEAAML SKGFSINWS

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FIGURE 5945

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGAAAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGAGGAGCAGGACGCCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAAAT
TAGAAGATAATGTACAATATGTGTCCATGAGAAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTCTGACTTATCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAAGTAAAGCTCCAGCAGAAAACAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCGTGGAGAATTACGCATCAAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTTCCA
CATTGAAAACAACCTCTTTTATAATTATCACTGCTTTTGTGAGTGAAATAGACATCTTGCCTCCTGAAGTAG
CTTCATCACAGAGTGTGATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCTTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATGCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTTGTACAGCCAAAATAATGTATATATGGAATGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTAAATTAAGTATTTAATATGGTTTTTCAGTGCTAAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCCAGTG
GCTTTGGGGGCAAGGATAGAAATGCCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAAACTCCTTTAGGTTTTTCAAGTAGATTTGTAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTCATACCTAG
CTATTTCTACCTCATTTGGGTAAGTCATTTACCACTCTGTGCCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTCATAATCACTGTTACATCCAGTGCCCTCACACTATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAAAAAAAAAAAAAAAA

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FIGURE 5946

GGGGCCTGGCTCGGACCACGCGGGGCGGGACCTGGAGCTGACGCGGCCGCCCCGCCCTGGGACCATAACCGGCC
GCCGCCGCCACCGCGGACCGAGCGCGGAGTTCTGGAGTCTCGGACCCGAAGCCGCCACAGGGCGCCCCGCCTCCC
GCCCGCCATGCCCGCGCCCCGCGCCCCGCGCGCTCTGGCGGCCGCCGCGCCCGCTCCGGGAAGGCCAAGCTGAC
GCACCCGGGGAAGGCGATCCTGGCAGGCGGCCCTGGCGGGTGGCATCGAGATCTGCATCACCTTCCCCACCGAGTA
CGTGAAGACGCAGCTGCAGCTGGACGAGCGCTCGCACCCGCCGCGGTACCGGGGCATCGGGGACTGCGTGCGGCA
GACGGTTCGCAGCCATGGCGTCTTGGGCCTGTACCGCGGCCCTTAGCTCCCTGCTCTACGGTTCCATCCCCAAGGC
GGCCGTCAAGTTTGGAAATGTTTCGAGTTCTCAGCAACCACATGCGGGATGCCAGGGACGGCTGGACAGCACGCG
TGGGCTGCTGTGCGGCCGCTGGGCGCTGGCGTGGCCGAGGCCGTGGTGGTCTGTGCCCCATGGAGACCATCAAGGT
GAAGTTCATCCACGACCAGACCTCCCCAAACCCCAAGTACAGAGGATTCTTCCACGGGGTTAGGGAGATTGTGCG
GGAACAAGGGCTGAAGGGGACGTACCAGGGCCTCACAGCCACTGTCTGAAGCAGGGCTCGAACCAGGCCATCCG
CTTCTTCGTTCATGACCTCCCTGCGCAACTGGTACCGAGGGGACAACCCCAACAAGCCCATGAACCCTCTGATCAC
TGGGGTCTTCGAGCTATTGCAGGCGCAGCCAGTGTCTTTGGAAACACTCCTCTGGATGTGATTAAGACCCGGAT
GCAGGGCCTGGAGGCGCACAAATACCGGAACACGTGGGACTGCGGCTTGCAGATCCTGAAGAAGGAGGGGCTCAA
GGCGTGAGTGGGGGAGGGGAGGGGCTATTGTCCCCACCTCAAACCTTTCCCGGCCTACCTGGCCTGCCCACTCTG
TCCCTTTCAGGCCTCTGTGCTCTCACTTCAGTATCTGGGGATTGCCCTGTGCAGGGACACTGTGCTGACCTGCC
TTCTCTCCCCGCCCTCTTCCACCCAGATTCTACAAGGGCACTGTCCCCCGCCTGGGCGGGTCTGCCTGGAT
GTGGCCATAGTGTGTTGTCTATGATGAAGTGGTGAAGCTGCTCAACAAAGTGTGGAAGACGGACTAAGCCTAG
AGAGGCCGCAAGGGGACCGCCCCAGGCACCGCCAGAGTGTCTGCTACCTTTGTCTCACGATTCCAGTGCAGTAG
TGCCAAAAGGCCCTTCCACGTCCCTCGAGCTCTGTAGCCTGGTCTGTGCATTGTGGCTGTCAAATCCATGTGT
CCCCCTGTGGTCTGTGTGTGACACCACCACTGTGTCCAGTGTCTGGCCAGCCATGGCTGGATGTGCATCTGG
CCTATGACCTGTGCCGTGTGTTTCATGTTCTGTGTACGTGACCCTGTGCCCCGCTCCCGGGGTGCCCGTGTGG
CCTGGGTCTTCGGCCCTGTAGCCCTGGCCCGGTCCAGTCCGGTGCCTTCCACCCTGCCCTGGCCTACCACAGCT
GCCTCCGGGCTCGGCCGTGGCTTACCGCATTCCAGGGGCTGCAGCCCCCTGCTTCTCCCGCCATTGGCCTTAAC
TGGCCCTCGGGCCCTCTCTCCGCCCCGACAGGGTGGCACCCACCACTCTCAGGACCACCCTGCCAAGGCAGAAT
AAACCGGATCCTGTTGC

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FIGURE 5947

AGTAAGCCGGGCTGCCGTCTTCTCGCCATGGGCTCCGGGCCGCGCGGGGCGCTGAGCTTACTGCTCCTGCTGCTG
GCCCCGCCGAGCCGCCCGGCCGAGGTGCCCCGGCGCCCTGTAGCTGCGCGGGGACGCTCGTGGAAGTGCAGGGCGC
CGCGGGCTGACTTGGGCCTCGCTGCCGACCGCCTTCCCTGTGACACAACCGAGCTGGTGCTGACCGGCAACAAC
CTGACGGCGCTGCCGCCGGGGCTGCTGGACGCGCTGCCCGCGCTGCGCACCGCACACCTGGGCGCCAACCCCTGG
CGCTGCGACTGCCGCCTTGTGCCGCTGCGCGCCTGGCTGGCCGGCCGCCCGAGCGTGCGCCCTACCGCGACCTG
CGTTGCGTGGCGCCCCCAGCGCTGCGCGGCCGCGCTGCTGCCCTATCTGGCCGAGGACGAGCTGCGCGCCGCTTGC
GCTCCCGGCCCGCTCTGCTGGGGGGCGCTGGCGGGCGAGCTTGCCTGCTGCGCTTGGGCTGCTGACGCGTTG
CTGCTGGTGCTGCTGCTGTGCCGCTGCGGAGGCTGCGGGCCCGGGCCCGCGCTCGCGCCGAGCCCGGCTGTCG
CTGACCGACCCGCTGGTGGCCGAGCGAGCCGGAACCGACGAGTCTTGAGGAGAGAACCGGTGCGTCCTGAGGAGA
GAACCGGCGCTGGGCAACACGGGCCTGCAAACTCGACAGGACCTGCCCCGAGGGGCCCTCGCGCCAACCTGGACC
GGTCCCCGCTCCTCCGCTGCCCAATCTCTCAGACCCACCCACCTGCAGGCCAGACCAGTGGGACAGAACTC
CTGCCACCCCTACCCCGAGGGAGGCGAACCCGCACTTCCAGGCTTGGGAGGACCATGGGGCACAAATGCGGTCCAG
ACCCTGCTGCGTCTCCCTTCCAAACTCTGGTGCTGAATAAACCTTCTGATCTGG

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FIGURE 5948

MSGGPRGALSLLLLLLAPPSRPAAGCPAPCSCAGTLVDCGRRGLTWASLPTAFPVDTTTELVLTGNNLTALPPGLL
DALPALRTAHLGANPWRCDCRLVPLRAWLAGRPERAPYRDLRCVAPPALRGRLLPYLAEDELRAACAPGPLCWGA
LAAQLALLGLGLLHALLLVLLLCRLRRLRARARARAAARLSLTDPLVAERAGTDES

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FIGURE 5949

CCCAAGATGCCAAAAGGAAAAGAAGGCCAAGGGAAAAGAAGGTGGCTCTGGCCCCTGCTGTCAATGAAGAAGCAGGAG
GCTAAGAAAGTGGTGAATCCCCTGTTTGAGAAAAGGCCTAAGAATTTTGGCATCGGACAGGACATCCAGCCCCAAA
AGAGACCTCACCCACTTTGTGAAATGGCCCCGCTATATCAGGCTGCTGGCAAACGGGACGTCCCCACCAAGAGAC
CACCTGTCCTTCGAGCAGGAGTTAACATCGTCACCACCTTGGTGGAGAACAAGAAAGCTCAGCTGGTGGTGATTG
CAGACGACGTGGATCCCATCGAGCTGGTTGTCTTCTTGCCCTGCCTTGTGTCTGTAATAATGGGGGTCCCTTACTGCA
TTATCAAGGGGAAGGCAAGACTGGGACGTCTAGTCCACAGGAAGACCTGCACCCTGTCACCTTCACATAGGTGA
ACTCGGAAGACAAAGGCACCTTTGGCTAAGCTGATGGAAGCTATCAGGACCAATTACAATGACAGATACGATGAGA
TCCGCCGTCCTGGGGCGGCAACATCCTGGGTCTAAGTCTGTGGCTCGTATCGCCAAGCTCGAAAAGGCAAAGG
CTAAAGAACTTGCCACTAACTGGGTAAATGTACACTGTTGAGTTTCTGTACATTAAAATAATTAAAATAATA
CAAATTTTCCTTC

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FIGURE 5950

CTGCCGTGTGTCTGAGGGCCAGTCATGCAGCATCCACCTAGGCAGGCTTGAGAGTCCTTGGGAGAGTCCAGGTGA
CCTGGTTTTTAAATAAAACGCGTCCTGTTTATTGTGGTTGGGCTCTGCCCAGAAAGGAAGGTAGGGCCTTGAAGT
GGTGATGTCCAGGTTTCTGACAGGTAGGGTGGAGGCAACGATGGACTCTGGCATGGCCTTCCAGACAGGCAGT
GCACACAGCTCCTTTCAGAGTGGCTTTGTTGCCAGCTGCTGCAGCACCTGCTTTCAGACAGATGATGACCAAGCT
GCTTTCCTGCTGGGGGAAGGAGGCATTCCCCCTGGGTTGTTTTTCTCTTCTGGCCCCCACACACTGGCAGACCCG
AAGGCAGGGTGTCTCAGGAGCTGCAGAGCCTGGCAGGGTTTGCTGGACATGCTCAGGGACGGGCCATGGTGTGGC
TCTGCTTTCTAATCATGGTGTGAGTCCCTTCACTTCCCTTGGAAATACCCAGAGATTTTATTTCCTGAAGATAGGA
CATGATGGGTGTCTGAGATGGTATTTAAAGTACCTGTCTGCAAGGAAAACCTTTAAATAGGAAGTACTAAGGAT
AAGGTCCTATGGGATATTGGAATATTTTATAAAGCCACAATAGTTAAAGCACTTATGATGTGGACAGATGAGCAGA
GAATAGAGGACTTTGAAACGGGCCAAATAAATATGGAATTTAGTACAGGCTAGAGGTGTTTCCAATTAACGAGT
AAAATGGATTATTCAGTAAAAGCAGTTGGCCCTCTGGAAAATAGTAAAGCCATGTATGTGCCTCACTCTTTATGC
CAGTACATATTCCAGATTAAAGATTTCAATGTTACAATTATGAAAGTACTAGAGGAAAATATGGGTGAATTTTTT
TTTTTTTTTTTTTTTGCCTATGATTCCAGGATTTTAAAAGTTTATAGATGCCAGAGTTGTGGAGGTATGGAGAAG
TGGACCTTCTCACTGTTGGTGGGAATACACAATAATATAATTTGACCACGTAACAATTCTAGGCACATGCATG
CTGTGACTACTGTCTAGGTGCATGAAGGCTCTTGCCAGGGGTGGTCTATGGTTCGGTACCACTACATGGGGGTTA
GAGCAGGGACTGGAGGTGGCCTTGCCCTCCTCCCTCCCGCATGAGCTGAGGGTCCTTACCTGACCTTTTTGAG
CTGTGACCAGAGTTTTTCTCATGGGGTGGTTAGAAGGGTTGAATGAGAATGATGCCATGCAGTGCCTTGGCTG
GGGTCTGGGCCCTTAACACCCACCTCATGGGTGTCACTGTTTTTTGAACAGCAGAACTGGAAAAGCCCAAAGAT
CCAGCAATAAAGGAGCAAGGCAAATAAAGCTGTTACCCTGCAGGATCAGTCAGCATGAGCCAGATTGTGCTGCAG
TAACAAAGATCTCCAACAGCGCAGCGGTACAGTTGGCACTGCTTATTTCTTGCTTGCACCTGTGGGCCACCGTG
GCTGGGGCCTGTCAGACCTGTGCTGACGACAGCCTACCTGGACATATTTCTCCATGCTCACTGAGGCAGGGGAAA
GGCCACAGCAGGCCACAAGTAATGTGTGTCACCCCACTTCCATTTCTGTGGCCAAAGGAAGCCACAGGCCACAC
CTGAGTTCCATAGGACGGCAGCAGCTGATCATCCTATGGGCTGGGGTGCTCAGTATGGAGAAGTACAAGCAGCCA
CCCAGCGTGGGGCTGGTTGGTGCTGCTGAGGATGGGAGGATGGGAGGGCCTGCATCCATCCAGGGCAACATAC
CTGTTTGTCTGCTGGGGCTGCCTGACAAAGGACCGCAGGCTAGGGGACTTAAACAACAGACATTTCTCATGATT
CTGGAGCTAGAAGCCTGAGATCAAGGTGTGGGCAGGGTTGGTTTTCTCCTGAGGCCTCGCTCCTTGGCCTGCAGAT
AGCCATCTTCTTGCCGTGTCCCTGTCTGTGTCTGTGTCTTAATCTCTCATAAGCTCACTAGTCTATTGGATCAGG
GCCCACCTCATGACCTCATTTAACCCCTGAATTACCTCTTTAAAGACCCTGCTTCAAATGTAAGTACTAGGGGT
TAGGACTTGAACATAAAAAATATTGAAGGGACATAGTTCTGCCACAGCGGTGCCCGCATAGGCTTCTCTGGTTT
TGTCTTTGCTGTTCTTGGCAGCGCTATATTGGGCAGGCTTCTGTGGTCTCCACATGCCTGTGTGCAGAGTCCCCC
AGGCCCTGGGTTCTGGGGCCATACTGAGGAGTGGGGATGGCCAAGCCTTGGCTGTTGAGTAGGCAGTGCCCACT
TGTGCTGTATGGGATGCTGTTTCTCACTTAAGAAATCTTTCCCTACCTGGGGGTACAAAGGCATTATCCTGTAT
TCCCAGGTTGTAACCTTCTGCCTTTGACATTCAACCTTGAGTCCACCTGTAAGTGTAACTGCGGCAGAAGGGAGG
GGTCTGCTGTCACTCTGATAGCCTGTGATGAGCAGAGCCCTCTGCCGACCGCGATGCACATGTAATATGAGCA
AGAAATAAATTTTTGATGTGCGAAGCCACTG

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FIGURE 5951

GGCACGAGGCTCCCCTGTGCTCCCAGCATGCCTCGTGGCCGGTGCCGTGAGCAGGGCCCTCGCATTCCCATCTGG
GCAGCCGCCAATTATGCCAACGCACATCCATGGCAGCAGATGGACAAGGCGTCTCCTGGGGTGGCATAACACCCCC
CTTGTGGATCCCTGGATTGAGCGGCCCTGCTGTGGGGACACCGTGTGTGTGCGAACGACCATGGAGCAGAAGAGC
ACAGCTAGTGGCACTTGTGGCGGTAAACCTGCAGAAAGGGGTCCCCTAGCTGGGCACATGCCAGCTCCCGACCC
CACAGGGTGGACTTCTGCTGGGTACCAGGCTCAGACCCAGGCACCTTTGATGGCTCCCCGTGGCTACTGGACCGC
TTCTTGGCCCAGCTGGGCGATTACATGTCCTTCCACTTTGAGCACTATCAGGACAACATCAGCCGTGTCTGCGAG
ATCCTCAGGCGCCTAACAGGCCGAGCCCAGGCCTGGGCAGCCCCCTACCTTGATGGGGACCTGCCCTGCCTGAC
GATTACGAGCTCTTCTGCCAGGATCTCAAGGAAGTTGTTCAAGACCCGAACAGTTTTGCTGAGTACCATGCTGTG
GTTACCTGTCCCCTGCCCTGGCCTCCAGCCAGCTGCCAGTGGCCCCCTCAGCTGCCTGTGGTGAGGCAATACTTA
GCTAGGTTCTTAGAGGGCCTGGCACTCGACATGGGTACTGCCCCAGGTCTTTACCAGCCGCCATGGCCACCCCT
GCTGTGCTGGGTCCAACCTGTATCTAGAAGTGCTCTGTTTCGAGCAGCAGCTGACCAAGGAGAGCACCCCTGGG
CCCAAGGAGCCCCCAGTCCCTGCCAGTTCTACATGTAGCTCCAAGCCTGGTCTGTGGAACCAGCCTCTTCCAG
CCAGAGGAGGCAGCCCCCACACCTGTCCCTAGACTGTGCGAGTCAGCTAATCCTCCTGCCAGAGACCAGACCCA
GCTCATCCAGGAGGTCCAAAACCCAGAAAACAGAGGAGGAGGTTTTGGAGACAGAGGGAGACCAGGAGGTGTCC
TTAGGTACCCACAGGAGGTGGTGGAGGCCCGGAGACCCAGGAGAGCCACCACTTTCTCCTGGGTTCTGAACA
CAGCCCAGGTGGGAACAATGCTGCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCATAGTCCCCAGTC
AGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGACTCTGCGCTG
AGCAGAACCAGCTCCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCTCTCTGC
TGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCCAGGCCTGCTCCACGAGGGGGTTCGTTTTGTAGATCAA
CTCTCAGCAGATAGTTGCATCATCTTTGTACCTCCACCCCATAAACACCCCCCTTGGTGTCTTCCACACTGG
CTGGGACTGAACCTGGGTCTGCCACGTCTGCCCTGTTGGGACCTCGTTCCCTGTATGGGGTTTCTGTGTCTGTCCCC
CTAGCCCCACCCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATGTGAGGAAGGCTGCCTGGAGGAAGTGGC
CACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGATGTTTCTGTGGGATTACCAGCAGTTC
TGGGCAGCTGGAAGGTTTGGATGCAGGAAGGTGGGATGCAAGCCCTTGCCAGGCTCAGCTGCAGGCATTGCCCC
TTTGTGTGTTAACTGTAGCTCTAATCGTGCCTGGTGTCTGAAGCAGGCTCCTCTTCCCTGCTGCTGTGCTGC
CATCCCTGCTCACTCCGCACTCGCATGCATTGCGGATTGAGCACTTAAGCCCTAGTGTGTAAATGACTTGGATC
TCCCTCCTGGCAGACTGTGACCCTCAGCACAGGGGCTCTGTCTTAGTCAGCTCTGTGGCCTGGTACACAATTGGT
GCTCATTAAACACGTGTTGGATTACTGGCAAAAAAAAAAAAAAAAAA

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FIGURE 5952

MEQKSTASGTCGGKPAERGPIAGHMPSSRPHRVDFCWVPGSDPGTFDGSPWLLDRFLAQLGDYMSFHFHEYQDNI
SRVCEILRRLTGRAQAWAAPYLDGDLPLEDDYELFCQDLKEVVQDPNSFAEYHAVVTCPLPLASSQLPVAPQLPV
VRQYLARFLEGLALDMGTAPRSLPAAMATPAVSGSNSVSRALFEQQLTKESTPGPKPEPPVLPSSCSCSKPGPVE
PASSQPEEAAPTVPRLSESANPPAQRDPAPHPGGPKPKQKTEEEVLETEGDQEVSLGTPQEVVEAPETPGEPPLS
PGF

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FIGURE 5953

TGAACACAGCCCAGGTGGGAACAATGCTGCCCCTCATGATGAAGTGGCCTGTGTGGCTTGAGCGCCCCATAGTCC
CCAGTCAGAGCAGAGTGGTGTCCCCAGATGACTTCAGACCCCATAGCTGGGCAAGATGCGCTTGTTTTGGACTCT
GCGCTGAGCAGAACCAGCTCCCCAACTCCAGCAGAGCTTGACCTCCGCCCTGTGCCCTTTCCCTGCTGCTGGCT
CTCTGCTGCATCCCTGCCCGTCTTCTGGGAGTGCCGTCTCACCAGGCCTGCTCCCACGAGGGGGTCGTTTTGTA
GATCAACTCTCAGCAGATAGTTGCATCATCTTTGTCACCTCCACCCCATCGTCTGCCCTGTTGGGACCTCGTTC
CTGTATGGGGTTTTCTGTGTCTGTCCCCCTAGCCCCACCCTCTCTGCTCCCTGTGACTTCTGTCCCAGCTGGAATG
TGAGGAAGGCTGCCTGGAGGAAGTGGCCACTTTGATTCTGGGGGATGAGTGGGATAGCATCTTGGCAAAGAATGA
TGTTTCCTGTGGGATTACCAGCAGTTCTGGGCAGCTGGAAGGTTGGATGCAGGAAGGTGGGATGCAAGCCCCTT
GCCAGGCTCAGCTGCAGGCATTGCCCCTTTG

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[illegible]

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FIGURE 5955

MAAMAVLRGLGGRFRWRTQAVAGGVIRGAARGAAAGQRDYDLLVVGGGSGGLACAKEAAQLGRKVAVVDYVEPSP
QGTRWGLGGTCVNVGCIPKKLMHQAALLGGLIQDAPNYGWEVAQPVPDWRKMAEAVQNHVKSINWGHVRVQLQDR
KVXYFNIKASFVDEHTVCGVAKGGKEILLSADHII IATGGRPRYPHTHIEGALEYGITSDDIFWLKESPGKTLVVG
ASYVALECAAGFLTIGLDTTIMMRSIPLRGFDQOMSSMVEHMASHGTRFLRGCAPSRVRLPDGQLQVTWEDST
TGKEDTGTFTDLWAIGRVPTDSLNLKAGVDTSPDTQKILVDSREATSVPHIYAIGDVVEGRPELTPIAIMAG
RLLVQRLFGGSSDLMDYDNVPTTVFTPLEYGCVGLSEEEAVARHGQEHVEVYHAHYKPLEFTVAGRDASQCYVKM
VCLREPPQLVLGLHFLGPNAGEVTQGFALGIKCGASYAQVMRTVGIHPTCSEEVVKLRISKRSGLDPTVTGCRV

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FIGURE 5956

CACCGCCATTGCCGCCATCGTCGTGGGGCTTCTGGGGCAGCTAGGGCTGCCCGCCGCGCTGCCTGCGCCGGACCG
GGGCGGGTCCAGTCCCGGGCGGGCCGTGCGGGGAGAGAAATAACATCTGCTTTGCTGCCGAGCCAGAGGAGACCC
CAGACCCCTCCCGCAGCCAGAGGGCTGGAGCCTGCTCAGAGGTGCTTTGAAGATGCCGGAGGCCCGCCTCTGCT
GTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGGCCT
GTGCCTTATCGGCTGGAACGAGTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCAGCG
CATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTACTG
CGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTCAGGAGCACCA
GCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCGCCTGCTGTCACCAGG
GGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCAGCGGATGGTGGATTTGCTGGCGT
GAAGGACAAGGTCACCCCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGTGGA
CACACTGGACATGGTCTTCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATGTGG
CCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCAGGTGCGCCAGACTTCCTAGCACACGT
GCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCTTGGAATACAGGGAGGTGGTGGACGGCCTGGA
GAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTGACTGCCCCCGGCCCCCTCTCGGGCTCTCTC
ACCCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATGCAA
AGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTTTAA
GACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAATAT
AAAATAGAAATTAA

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FIGURE 5957

MPEAPPLLLLAAVLLGLVLLVLLLLLLLRHWGWLCLIGWNEFILQPIHNLLMGDTKEQRILNHVLQHAEPGNAQSV
LEAIDTYCEQKEWAMNVGDKKGKIVDAVIQEHQPSVLELGAYCGYSAVRMARLLSPGARLITIEINPDCAAITQ
RMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPDTLLLEECGLLRKGTVLLADNVICPG
APDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKGPGEAGP

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FIGURE 5958

GCTGTTGGCAGCTGTGTTGCTGGGCCTGGTGCTGCTGGTGGTGCTGCTGCTGCTTCTGAGGCACTGGGGCTGGGG
CCTGTGCCTTATCGGCTGGAACGAGTTTCATCCTGCAGCCCATCCACAACCTGCTCATGGGTGACACCAAGGAGCA
GCGCATCCTGAACCACGTGCTGCAGCATGCGGAGCCCGGGAACGCACAGAGCGTGCTGGAGGCCATTGACACCTA
CTGCGAGCAGAAGGAGTGGGCCATGAACGTGGGCGACAAGAAAGGCAAGATCGTGGACGCCGTGATTGAGGAGCA
CCAGCCCTCCGTGCTGCTGGAGCTGGGGGCCTACTGTGGCTACTCAGCTGTGCGCATGGCCCCGCCTGCTGTCACC
AGGGGCGAGGCTCATCACCATCGAGATCAACCCCGACTGTGCCGCCATCACCCAGCGGATGGTGGATTTCGCTGG
CGTGAAGGACAAGGTCAACCTTGTGGTTGGAGCGTCCCAGGACATCATCCCCAGCTGAAGAAGAAGTATGATGT
GGACACACTGGACATGGTCTTCCTCGACCACTGGAAGGACCGGTACCTGCCGGACACGCTTCTCTGGAGGAATG
TGGCCTGCTGCGGAAGGGGACAGTGCTACTGGCTGACAACGTGATCTGCCCAGGTGCGCCAGACTTCCTAGCACA
CGTGCGCGGGAGCAGCTGCTTTGAGTGACACACTACCAATCGTTCCCTGGAATACAGGGAGGTGGTGGACGGCCT
GGAGAAGGCCATCTACAAGGGCCCAGGCAGCGAAGCAGGGCCCTTGACTGCCCCCCCCGGCCCCCTCTCGGGCTCT
CTCACCAGCCTGGTACTGAAGGTGCCAGACGTGCTCCTGCTGACCTTCTGCGGCTCCGGGCTGTGTCCTAAATG
CAAAGCACACCTCGGCCGAGGCCTGCGCCCTGACATGCTAACCTCTCTGAACTGCAACACTGGATTGTTCTTTTT
TAAGACTCAATCATGACTTCTTTACTAACACTGGCTAGCTATATTATCTTATATACTAATATCATGTTTTAAAAA
TATAAAATAGAAATTAA

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FIGURE 5959

MGDTKEQRILNHVLQHAEPGNAQSVLEAIDTYCEQKEWAMNVGDKKGKIVDAV IQEHQPSVLLELGAYCGYSAVR
MARLLSPGARLITIEINPDCAAITQRMVDFAGVKDKVTLVVGASQDIIPQLKKKYDVDTLDMVFLDHWKDRYLPD
TLLLEECGLLRKGTVLLADNVICPGAPDFLAHVRGSSCFECTHYQSFLEYREVVDGLEKAIYKPGSEAGP

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FIGURE 5960A

GGCGGTTCGGTCGGTGAGGCTTTCCCGGCTGTGGTTTGGCTGCGGGCGGCTTGGGCAGCCCGCGGGCGCCTCAGGT
AGAAGAAGAAAGGTGCCACTCCGGCATGAAGACAGACTCGCTTAGTCGCCAGTCACTTAAGCTGAGTGCATTGTG
ATTTCCAATAATTGAGGCAGTGGTTCTAAAAGCTGTCTACATTAATGAAAAGAGCAATGTGGCCAGCTTGACTAA
GCCGCCAGCGCACAGCGCGGCAGGACGCGCCCCGGGTCTCAGCGGACTTGTGCATGTTAGCTGTGTAGATTTAIGT
GAGGGCTTGTAAACTCTGGTCTTGTAAACTAGTCTTAAGCGCTTTTAATATGGAGACAGATGAGAGCCCCCTCTC
CGCTCCCCTGTGGGCCCCGAGGAGAAGCGGTGATGGAGAGCCGAGCTCGCCCCCTTCCAAGCGCTGCCCGTGAGC
AGTCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGT
CCGAACCTCCCTGCTGAGGACCCCTTCAACTTCTACGGAGCTTCTCTCTCTCTCAAAGGATCCTTCTCTAAGGGCC
GCCTCCTCATAGACCCGAAGTGTAGTGGCCACAGCCCGCGCACCCGGCCGACGCACCTGCGGTCCGGAAGTTCT
CCCCTGACCTTAAGTTGCTTAAGGATGTAAAGATTAGCGTGAGCTTTACCGAGAGCTGCAGGAGTAAGGACAGGA
AGGTGCTGTACACAGGAGCAGAGCGCGACGTGCGGGCGGAGTGCGGTCTGCTCCTTAGCCCTGTCTAGTGGGGACG
TGATGCTTGTCCCTTTGGCGGGAGTGTGGTGACGGGGTAGGCATAGGGGGTGAGAGTGTGATAAGAAGGATG
AGGAGAATGAGCTGGATCAGGAAAAGAGAGTGGAGTATGCAGTGTCTCGATGAGTTAGAAGATTTTACTGACAATT
TGGAGCTAGATGAAGAAGGAGCAGGCGGGTTCACGGCTAAAGCAATCGTTCAGAGAGACAGAGTGGATGAAGAGG
CCTTGAATTTCCCTACGAGGATGACTTTGACAACGATGTGGATGCTCTGCTGGAAGAAGGCCTTTGTGCCCCCA
AAAAGAGGCGAACAGAGGAAAAATATGGCGGAGACAGCGACCATCCGTCCGATGGAGAGACAAGTGTGCAGCCGA
TGATGACCAAGATTAAACAGTGTCTAAAAGTACGTGGCGGCCACCTACAGAGCCGCTGCCCGACGGGTGGATC
ATGACATTCATAACTCTGGAGTCCCGGTGTACCTACACAGAGAGTCTCGGGTGGTACCTGGTCCAGGCCATAC
TTCTTGGGAACGGGAAGCATACGGAACACGACCCCTCCTCTGAGTAGCATCCCTTGTCTGCATTATAAGAAAATG
AAGGACAACGAGGAACGGGAGCAAAGCAGTGACCTACCCCTAGTGGGGATGTGTCCCCCGTCAAGCCCTGAGC
CGATCTGCAGAGCTGGAGTTTCCCTGGATGAGCCTGACCTCTATGGGTGCTGACCCGGGGCCCCCGGACGAGAAA
GACCCACTAGGGGTGAGGCAGCCCTGGGGCCCTGGGGCAGGTGAAGGCCAAAGTCGAGGTGTGCAAAGATGAA
TCCGTTGATCTCGAGGAATTTCGAAGCTACCTGGAGAAGCGTTTTGACTTTGAGCAAGTTACTGTGAAAAAATTC
AGGACTTGGGCTGAGCGCGGCAATTCAATCGGGAATGAAGCGGAAGCAGGCGAGTCCGAGAGGCCCATCTTG
CCAGCCAATCAGAAGCTCATTACTTTATCAGTGCAAGATGCACCCACAAAGAAAGAGTTTGTATTAAACCCCAAC
GGGAAATCCGAGGTCTGCATCCCTGCACGAGTACATGCAGCGTGTCTCAAGGTCCGCCCTGTCTATAATTTCTTT
GAATGTGAGAACCACAGTGAGCCTTTTGGTGCCCTCGGTGACCATTGATGGTGTGACTTACGGATCTGGAAGTGA
AGCAGCAAAAAACTTTCGAAGAATAAAGCTGCCCGAGCTACACTGGAAATCCTCATCCCTGACTTTGTAAACAG
ACCTCTGAAGAGAAGCCCCAAAGACAGTGAAGAATCGAGTATTTTAACCACATCAGCATCGAGGACTCGCGGGTC
TACGAGCTGACCAGCAAGGCTGGGCTGTTGTCTCCATATCAGATCCTCCACGAGTGCCTTAAAGAAACCATGGG
ATGGGTGACACGTCTATCAAGTTTGAAGTGGTTTCTGGGAAAAACCAGAAGAGTGAATACGTCTATGGCGTGTGGC
AAGCACACAGTGCAGCGGGTGGTGTAAAGAACAGAGAGTTGGAAAGCAGTTAGCCTCACAGAAGATCCTTCAGCTG
CTGCACCCACATGTCAAGAACTGGGGGTCTTTACTGCGCATGTATGGCCGTGAGAGCAGCAAGATGGTCAAGCAG
GAGACATCGGACAAGAGTGTGATTGAGCTGCAGCAGTATGCCAAGAAGAACAAGCCCAACCTGCACATCCTCAGC
AAGCTCCAAGAGGAGATGAAGAGGCTAGCTGAGGAAAGGGAGGAGACTCGAAAGAAGCCCAAGATGTCCATTGTG
GCGTCCGCCCAGCCTGGCGGTGAGCCCTGTGCACCGTGGACGTGTGAGGGAGGTGGCACGGGCCAGGGCGCGGG
GGCCGCCAGCCGCACTTCTGAGGAGACCAGCAGTCATGCATCGTGCACCACAGTGTGAGGCCTCCAACCCACGCT
CCTTCCCTGTGGCCAACCTGTGGGCCCGGCCTTAGGGTGGAGGCTTTAGTGTACAGGGACAGCCATGGCCACACA
GCACACATGTGGAGCAGCGGCTCTCCCTGGAAAGCTCCAGGCCTGAATGGATGGACTCAGCGACTGCACCAGTGG
CAGCTGGTGAAGTGTGGACAGTGGTGGACCCCTGCTTCTGTGCACCTGCTGCAGGCTCTTTTTATGAAGGCTTTTCAT
GAATTTTAGTATGTAATACGCACTGACGACACATGATGCTTGGATGACAGATGAGAGGGGATGGCTGAGTCTGT
GGCTGGCCCGTGATGCCAGGTGGCCCATGTGCCAGGGCGCCTGCAGGGCTGCTACAGGGACCTGGTCAGGAGGT
GCACATGGTGCCCTGCCCTACCCACCCCTCTGTGTTTTCCCTTCTTTGAAAAGGTAGAAGAGAAAGGAATATTTT
AAACCTTTTTGGCTTAAACAGAATTTTAGCATCAGAACTAGCTTTCTGGGATTGGAGGCAAACCATCAAGGTGGT
CCCTCTCCAGTCTGGACACGATGCCAGCAAGGATGACGTCTGCCACCTCCTGGAGTTACCCTGGCCCTCCTAGGG
TCCCTTTTTCTGATGAAGTCTTAATTCCTAAAAGCGCCTCTTTGGACACTGAGGCCCTCTCTGCCTTCTCTGGC
CTCCGGCAACAGTTTTTTTACAAAGATTTTTTTCAGTCGAGTCCATATGTCCACCCATTGATTTTTAAAGCTTTTG
TGATATTTTAGCATTTTGAAGACTTTCACAGTGAGAGTAGAAGGTAGATTTGGAATCATGCATTTTAGCAAGTG

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FIGURE 5960B

GACTTGTTGAAACAGGAAGCAAGGGCCTTCAGTGTAGCCCATTCTTGATCCAGAGCTGTTGCCTGTGACAGCGGT
TTCTCTGGATGTCAAAGGCAGCTGCCTGGTGCCAGCTTGCTTCTCGACTGGTGGCCCCCTATGGGTGGGTGTGCG
ATGGAAATGTGTTCCCTGCCGGAGTCTGAGGCACCAGGGTGTGCTCAAAGGCTGGCCCTGGTGGTGGACTGGCACC
TGTGCAGAGTGCCGTGTGCTTGTGGTGCGCCATCTGAAGCAAGAGTCCAGCGTTCTGCCGTGTCTGTCCCCCACC
ATGCCCCCTACAGGCGGTACTGATGGCGCTTTTTTTTTTTTTTCTGTCAGGAAAACAATGTTGGCCTGTGGGCCG
CCCACAACATATCCTTCCCTCACTACCTGTGTGACCAAGGTTGGCTTCTGTTGACCTTTAAAAAAGAAACCTCA
ACTCAAATTGCTATAATTAGACACTTGCTTCTGTCTTGCTCTGCTGTCAGCTGTGAATAGTCATTTGACTGTG
ACTGTTGCCCTTAGCCAGCCAGATGCGCCTGTGAACCAAAGCTTCGTGCACATGTGTTCCCTAAAGGTTGGGGA
GCCTCGCTGTGCTTGTGCTTCCCAGGCACCACACAGCAGGTGCTGCCATACTCTTGTTGGTCTCTGTGCGCCCC
CCCCCCCCCCCCACCCGTCTGCCAAGCATGGGTATGAATCGTGCACACAGCCATGCTTCAAGGCCGGGGCAGGGG
AGCCTGTGCTGATGCCATCCAGGGCACTGGGCTGTGCCTGGAAGGCGAGCCTTGATTGTCTGAACACATAAAGCA
AACTGTCCAG

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FIGURE 5961

GTTGCCAGAAGCCAGGATCATAGAGACGCTCGGCCTCCGCCGCACGCGCTGGCGGACTAAGAGTGGCTGGCGAAG
CGAGCGGGCCGGCGCGGGCCCCCTGGCGGGCGGGCGGTACAGCCCCAAGCCTGAGACCCGGAECTGAGCATCGCAGG
TTCGAGTCCCGCCCCGCCCTGGGGCGAAGCCGGGGGTGGCGGCGACCTCGCGGCGTTGCACCGGCTCTGTGAGCAC
CTCCCCCTCTGAGCACTTCCCTTGTGACAGGCCACTTCCCTTGTGACAGGCCAGGACGAGGTGGCCAGGCGGGCC
CCATGGCGTCCCTGGTCTAGGCGGAGAACCGCCTGGGCGCATGAGTGAGAACCCTCGACAACGAGGGCCCCGAAGCCC
ATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCCCTGAGCTGCCCTACCGTCTCGGTGCCCCCTGCAGCCCCGGCA
GCCCTGGAGGAGGTGGAGAAAGAGGGCGCTGGGGCGGTACAGGGCCGGGGCCTCAGCCCCGGGCTCTACAGCTAC
ATCAGGGATGACTTGTTTACCTCTGAGATCTTTAAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGC
GACGTCCGGCGCTTCCCTGGGCGCTTGGTCTGCAGCCCCACAAACCAAACCTCTTTGGGCAACCACCCTGCGCC
TTTGTGACATTCGCGAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGTCATGGTGCCCTCTGGAAAGGCCG
CCACTCAGTGTGCGCCTGGCCCCGGCCCAAGGCCGACCCCATGGCCAGGAGGAGGCGACAGGAGGGTGAGAGTGAG
CCACCAGTAACACGAGTGGCCGACGTGGTGACCCCTCTATGGACAGTGCCCTATGCTGAGCAGCTTGAGCGGAAG
CAGCTGGAGTGCAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTGCCCTGG
CTGCTCGAGCAGAGGCACAAGCACAAAGGCCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCACCCAGCAGACT
GAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGTGGATGGGGAGGATAACACCGTGGGCTGTGCGCTC
GGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGCACATCCCCGAAGCCACCAAGCAG
GTGGTGAAGGCCTTCAGGAGTTTCATCCGTTCCACTCCATACTCGGCATACGACCCAGAGACGTACACAGGCCAC
TGGAAGCAGCTGACTGTGCGCACCCAGCCGCCGCCACAGGCCATGGCCATTGCCTACTTCCACCCCCAGAAGCTG
AGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCGCAGCACTTCACAGCAGGGCCAGGCAGGGCCAGTGGA
GTGACCTGCCTCTACTTCGTGGAGGAGGGACAGCGAAAGACTCCTAGCCAGGAGGGCCTGCCCCCTGGAGCATGTG
GCTGGGGACCGGTGCATCCACGAGGACCTGCTAGGGCTGACCTTCCGGATCTCTCCACACGCCTTCTTCCAGGTG
AACACACCCGCAGCCGAGGTGCTCTACACAGTCATCCAGGACTGGGCCCAATTGGATGCGGGGAGCATGGTGCTG
GACGTGTGCTGTGGCACCAGGCACCATTTGGCCTGGCCCTGGCCCGGAAGGTAAAGAGGGTCATTGGGGTCGAGCTA
TGCCCAGAGGCTGTGGAGGACGCCGGGTGAACGCCAGGACAATGAGTTGAGTAATGTGGAGTTCCACTGCGGG
AGGGCCGAGGACCTGGTGCCACCCCTGGTGGGCAGACTGGCCTCCCAGCACCTCGTGGCCATCCTGGACCCACCC
CGTGCTGGCTTGCATTCCAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCTCAGCGGCTGCTGTACGTCTCA
TGCAACCCCGGGCAGCCATGGGCAACTTTGTGGACGCCCCCTTTTCCCCCACAGCCTCTGCAGAGCCCCATC
TAACCGGGTGAAGGGCATTCCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTTCCTCGCAGACCCGCACTG
TGAGATGCTCATCCTGTTTGTAGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCCCACAGCCCTCCAGC
TCAACCCACACCAGGACCCCCAGATAACACCCTACAAGAACTGGGACCTTCCCTCATCCTAGGCCAGGACCC
ATTATGGGGACAGGAGCTGAAGGGCTCCCAGGGCCCCAGGGCGGGGAAGGCATGGCTTGCTGGCCAGGATATTC
AGAGGTAGGCAGCCAAAGGGCACAGAACCCTGTGCCCCACCAGGATTGGCCTGCTGCTAGGGGCCAGGGGCCCTG
ACCAGGAAGACAGGTGGGTTCCCTGTAGCCTGTTGCCATCCCCAGGGCCTTTGTGGACTAGCCAAGGCTGTGAGG
GCCAGAATAACAACCTGCTCAAC

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FIGURE 5962

MSENLDNEGPKPMESCGQESSALSCTVSVPPAAPAALEEVEKEGAGAATGPGPQPGLYSYIRDDLFTSEIFKL
ELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRSAAERDKALRVLHGALWKGRPLSVRLARPKADP
MARRRRQEGESEPPVTRVADVVTPLWTVPYAEQLERKQLECEQVLQKLAKEIGSTNRALLPWLLEQRHKHNKACC
PLEGVRPSPQQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVHIPEATKQVVKAQFQEFIRSTP
YSAYDPETYTGHWKQLTVRTSRRHQAMAIAYFHPQKLSPEELAELKTSLAQHFTAGPGRASGVTCLYFVEEGQRK
TPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAAEVLYTVIQDWAQLDAGSMVLDVCCGTGTIGLAL
ARKVKRVIGVELCPEAVEDARVNAQDNELSNVEFHCGRAEDLVPTLVGRLASQHLVAILDPPRAGLHSHKVLAIR
RAKNLRRLLYVSCNPRAAMGNFVDAPLFPPQPLQSPI

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FIGURE 5963

CAGTGGCTCACACAGGTCACCTGCACGCCAGGGCCTGCCCTCCCCGCCGGCACTCCCCACTCACCAGGGCCCTC
TGCCAGCCCTACACGGCACACGCTGGTTAAGAAGGTGTCCGGCGTGGGTGGGACCACCTACGAGATCTCGGTGTG
AGGACTGACTGCCACACATCCGCCATGGTGCCACGGGGACCAGGACCCACAGCGCACCCCCCTCCCCACCAAC
TTCTCTGCCCCAGGGACCCGAGGCCACCCAGCCTGGTGTGGACCCATCGGCGGGAGAGAGTGCCACGCCTCCAC
AGCTTGCCCCAAGCGCTCTGCCTGCCCGTCCACTCATCTGCCCATGGGGAAGTCGGCTCACTGGGACAAGGGCCA
CTGGGCTGGTCTGTGTCTGGGCCGTGCCATGGCTGGGGCAGTGAGGGGGCCAGTCAGCCTCTTTGGGGCACCC
TCTCTCAGCCAGGCTTGCCCCACTGCCATCAGCCAGCACCCAGATCAGCGCCAGGCCAGCCCCAATGGTCCCC
TTACGGACAGGTCCCAGAGATGGACAGAGGCACCCAGGGCCCCCACCCTCCTTCTGACACAGCCTGTGGGCTCCC
GGACCGAGTGTCCCCGCCAGGCTACTCCTAACTAACGCGTTGCCTTTCACGGACCCCGCTGGAAGCTTGTAGCT
TGGCAAGGCTGATGCTTCTGCCCTGGCCTGCTCTGGGTGGTGGTGGA

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FIGURE 5964

TCTTCTCGAGGCCTCCGTTGCCTCGTCTGTGCCCCGGCGGTGGTGCTTACCCGGCGGGGTCGCAGGGAGGTCTCG
TGGCGGCGCGTGTGGGTCTGCGTTTCCCCCTCTGGGGTGCTTGGGCAGCATGAGCCCAGGGCTGTGGACAGCCTG
GTGCTCACGGGTTTGTGGCTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAACTGC
CAGCGGCTGGACCCCAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACACTTT
GAGGAGGACTGACCGAGGGGCTGCCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACCAGACCCACCAGG
TGCCATAATAAAGCGGATTCTAGACGGAG

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FIGURE 5965

CGTGAGTGCCGCTGACAGAAGTCAAGAGAAATCGGCTGGGACGGGGTTGGGGCGACAACGGGCCGGGGGGGACCCG
ACAGGCCAGAGCCCCCTTGGGGAGGAGCGGCGGCTGGAGGCGCGAGGCTCCTCCGGATGCCCGGAGAGCCGCTTGC
GACTTAACTCCCGCCTCTTTCCCAGATGCCGCGTCACTGCTCCGCCGCGGCTGCTGCACACGGGACACGCGCGA
GACGCGCAACCGCGGCATCTCCTTCCACAGACTTCCCAAGAAGGACAACCCGAGGCGAGGCTTGTGGCTGGCCAA
CTGCCAGCGGCTGGACCCACAGCGGCCAGGGCCTGTGGGACCCGGCATCCGAGTACATCTACTTCTGCTCCAAACA
CTTTGAGGAGGACTGCTTTGAGCTGGTGGGAATCAGTGGATATCACAGGCTAAAGGAGGGGGCAGTCCCCACCAT
ATTTGAGTCTTTCTCCAAGTTGCGCCGACAACCAAGACCAAAGGACACAGTTACCCACCTGGCCCCCCTGAAGT
CAGCCGGCTCAGACGATGCAGGAAGCGCTGCTCCGAGGGCCGAGGGCCACAACCTCCATTTTCTCCACCTCCACC
TGCTGATGTCACCTGCTTTCTGTGGAAGAGGCCTCAGCACCTGCCACTTTGCCGGCCTCCCCAGCTGGGAGGCT
GGAGCCTGGCCTTAGCAGCCCCCTTTCAGACCTACTGGGCCCCCTTGGGTGCCAGGCAGATGAAGCAGGCTGCAG
CGCCAGCCTTCACCAGAGCGGCAGCCCTCCCTCTCGAACCACGGCCAGTCTCCCCCTCAGCGTATATGCTGCG
CCTGCCCCCACC CGCCGAGCCTACATCCAGAATGAACACAGCTACCAGGTGGGCAGCGCCTTACTCTGGAAGCG
GCGAGCCGAGGCAGCCCTTGATGCCCTTGACAAGGCCACGCGCCAGCTGCAGGCCTGCAAGCGGCGGGAGCAGCG
GCTGCGGTTGAGACTGACCAAGCTGCAGCAGGAGCGGGCACGGGAGAAGCGGGCACAGGCAGATGCCCGCCAGAC
TCTGAAGGAGCATGTGCAGGACTTTGCCATGCAGCTGAGCAGCAGCATGGCCTGAGGGGCTGCTGGACTGACCGA
GGGGCTGCCAGCAAGACTGCAGCCTCTTCCTCCCTCAGATCCCACAGACCCACCAGGTGCCATAATAAAGCGG
ATTCTAGACGGAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5966

MPRHCSAAGCCTRDTRNTRNGISFHRLPKKDNPRRGLWLANCQRLDPSGQGLWDPASEYIYFCSKHFEEDCFEL
VGISGYHRLKEGAVPTIFESFSKLRRTTKTKGHSYPPGPPEVSRLRRCRKRCSEGRGPTTTPFSPPPPADVTCFPV
EEASAPATLPASPAGRLEPGLSSPFSDDLGLGALGAQADEAGCSAQSPERQPSPLEPRPVSPSAYMLRLPPPAGAY
IQNEHSYQVGSALLWKRRAEAAALDALKQAQRQLQACKRREQRLRLRLTKLQQERAREKRAQADARQTLKEHVQDF
AMQLSSMA

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FIGURE 5967

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCTGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCTCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCCCAACAAAAGAAGCTACA
GGAGGAACCTTGCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAATTGCTTGAAGTAAGCACTGATGGCATTGAGAAATTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACTTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCTTTTATAATTATTCAGTGTCTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCCTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTATATGTACAAAAGAAATTGCCTTACACTGGTTCATGTTTGAGATTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAAGTATTTTAAATATGGTTTTTCAGTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGCTACCTAATTGCTGTCTCCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTAGGTTTTTGCAAGTAGATTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACCTGTGCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCTTGAGGGACTTTGTATATCACTGTTACATCCAGTGCCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAAACAACAAAAA

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FIGURE 5968

CGGGAAGATGGCGGGCCGGGCGACTTGAGATCCGCGGGTCTCCCTGCTCCTTTTCCGTCTGCGTCGGGAGCTCCC
GGGCACGTGAGGCCGTGCCGCGTTTACTGGCGGGAGGGACGGCCTAGCCGGGCGACGCCTCGGAGGAGGCCGCGG
ACCCCTTAGGTGCTGGGCCCTTGGAATCGGCGCGTGGGGGGCGGTGCTCGAGCTGAGCGCGAGAGGGCGGGAGA
GCTCGTGGGGTGCGAGGGGAGCAGGACGCCCGGCCGGGCAGCATGAGTCAGCAGCGGCCGGCGAGGAGATTACCC
AGTCTCCTCCTGCACCCGACGGAGGAGACCCCATCAACGTGGAGGGCCTGCTGCCATCAAAAATAAGGATTAATT
TAGAAGATAATGTACAATATGTGTCCATGAGAAATCTGCTCCCGGGGTATTCTTGACTTAAACAAGGTTGCAAC
GAACTGGGAGTCCGAAAGCGGAGAGTGTATGACATCACCGATGTCTTAGATGGAATCGACCTCGTTGAAAAGAA
ATCCAAGAACCATATTAGATGGATAGGATCTGATCTTAGCAATTTTGGAGCAGTTCCTCAACAAAAGAAGCTACA
GGAGGAACCTTCTGACTTACCAGCAATGGAAGATGCTTTGGATGAGTTAATTAAGGATTGTGCTCAGCAGCTGTT
TGAGTTAACAGATGACAAAGAAAAATGAAAGACTAGCATATGTGACCTATCAAGACATTCATAGCATTACAGGCCTT
CCATGAACAGATCGTCATTGCAGTTAAAGCTCCAGCAGAAACCAGATTGGATGTTCCAGCTCCCAGAGAAGACTC
TATCACAGTGCACATAAGGAGCACCAACGGACCTATCGATGTCTATTTGTGAGAAGTGGAGCAGGGTCAGACCAG
TAACAAAAGGTCTGAAGGTGTCAGGACCTCTTCATCTGAGAGCACTCATCCAGAAGGCCCTGAGGAAGAAGAAAA
TCCTCAGCAAAGTGAAGAAATGCTTGAAGTAAGCAACTGATGGCATTGAGAATTTATGTATCACTGAGTTTTTT
GGGAATATCTTCTGGAGAATTACGCATCAAATTTGATTCTCAGAGCAATAAATTATCCATGAAGTGCTCTCGTT
CTCAGTAGCGGCATCATGGCCAGTAGTGTCTTTGAGGAGTTCACCACCTAGATTACTGAGTAATTGTGGTTTCCA
CATTTGAAAACAACCTCCTTTTATAATTATTCAGTGTCTTTTGTGAGTGAATAGACATCTTGCCCTCCTGAAGTAG
CTTCATCACAGAGTGTATGAAGACAGACAGTCAGGCTGAAAAGGACAGTTCTTTGTGGACTCTACCCCTCCCTT
CAAGGAGTATGTCATATGTCACAAAAGAAATTCCTTACACTGGTTCATGTTTGCAGTTACTGTTGTACATTGCA
TAGATGTACACACGAATTTAAATGTGATGTCTTTGTATATATCTGTATAATGTTGAGATTACTTACGAAATATGT
CTGAGTGACACTTTTCACTCTCGTACAGCCAAAATAATGTATATATGGAAGTGACAGACAAATCTCTAATCTC
TTTGGTATCTATAACTTATTAGAATCCTCTGGATGAGGGTTAGAAGAGACTTTTTCCAACTTCTACATGTAGAA
GTATCATAAATGTGCTACACATTTATGTTTGTGGATTTAATTAAGTATTTTAATATGGTTTTTTCAGTGCTAAAT
TGGAGTCAGATACTTCTTGGTTTTAAGCTGTCTACCTAATTGCTGTCTCCAGCAGATCGGTGGCATGCCAGTG
GCTTTGGGGGCAAGGATAGAAATGTCATCAGGAAATAGCTGAATTCATTGTGAAACATGAATTCAGTCATGGTGA
TAATTGGAACCTCCTTTTTCAGGTTTTTGAAGTAGATTTTGTAAATGTTTGTGTATGCAGCCTTGCTGTTGAGTCAG
TCCAAGGGGTTTTACTTAGGACAAAGTTGTACCTTGCCCTCTCTCCAGCTCTGCTCCACATTTTACATACCTAG
CTATTTCTACCTCATTGGGTAAGTCATTTACCACCTCTGTGCTCAGTTTACTCTGTAGTTTACCATTAGACTGTG
AGCTCCCTGAGGGACTTTGTCAATCACTGTTACATCCCAGTGCCTCACACCATGCCTGGCCCTTAAGAAGTGC
TCAATAAATGTCTGAACAAAAA

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FIGURE 5969A

CAAGAACGTCTAGCCGCCAGCAGCATCTATTTCAGTCCCTGGTCTGCACGACAACCTCATCAACCTGGACAC
AGACATGGTCAGCTCCACAGTGTTCAGCAGATCTTGGACTTCATCTACACAGGCAAGCTGCTGCCCAGCGACCA
GCCAGCCGAGCCCAACTTCAGCACCTCCTCACTGCCGCCAGCTACCTCCAGCTGCCCCGAGTTGGCAGCCCTCTG
CCGCCGCAAACCTCAAGCGAGCCGGCAAGCCCTTTGGCTCTGGGAGGGCGGGGTCCACTGGCATGGGGCGGCCCCC
CCGCAGCCAGCGGCTGTCCACGGCCTCTGTATCCAAGCTCGGTATCAGGGGCTCGTGGATGGGCGCAAGGGGGC
CCACGCCCCCAGGAGCTCCCCCAAGCCAAAGGCTCAGACGATGAACTCTTTCTTGGTGGCTCTAACCAGGATAG
CGTGCAAGGTCTGGGCGGGGCTGTCTGCCAGCTGGCGGGGAGGCGGGTCTGGGGGGCTGCAGCAGCAGCACAA
CGGGAGCAGCGGGGGCTGCGAGCAGGAGCTGGGCTTGGACCTGTCCAAGAAAAGCCACCCTTGCCCTCTGCCAC
CCCAGGTCCCCACCTCACTCCCGATGACGCAGCCAGCTGAGCGACAGCCAACATGGCTCGCCCCCTGCGGCCTC
TGCTCCTCCCGTTGCCAACAGTGCCTCTTATTCTGAGCTGGGGGGCACCCCTGATGAGCCCATGGATCTGGAGGG
GGCCGAGGACAACCACCTGAGCCTGTGGAGGCGCCTGGTGGGCAGCCTCGGAAGAGCCTCCGGCACTCCACTCG
GAAGAAGGAGTGGGGCAAGAAGGAGCCTGTGGCTGGCTCCCCCTTTGAGCGGAGAGAAGCAGGGCCCAAGGGTCC
CTGCCCCGGGAGAGGAGGGTGGGGGGTGGGGGACAGGGTTCCCAATGGCATCCTGGCTAGTGGGGCTGGCCCTAG
CGGGCCCTATGGGGAGCCCCCTACCCCTGCAAGGAGGAGGAGGAGAACGGCAAGGATGCAAGTGAAGACAGTGC
GCAGAGCGGGAGCGAGGGGGGAGCGGCCATGCCAGCGCCCACTACATGTACCGGCAGGAGGGCTACGAGACGGT
GTCCTACGGGGACAACCTTGATGTGTGCAATCCCTGCGCCAAGGGCTTCCCCAGCTCTGAGCAGCTCAATGCGCA
CGTGGAGACTCACACGGAGGAAGAGCTGTTATCAAGGAAGAGGGGGCCTACGAGACAGGCAGTGGGGGTGCCGA
GGAGGAGGCCGAGGACCTGTACGACCCAGTGGCGCTACACGGCTGAGCCCCGGCCCTTCAAGTGTTCGGTCTG
CGAGAAGACCTACAAGGACCCAGCCACGCTGCGGCAGCAGAGAAGACGCACTGGCTGACACGGCCCTTCCCCTG
CAACATCTGTGGCAAAATGTTACGCAGCGCGGCACCATGACGCGTCACATGCGGAGCCACCTGGGCCTGAAGCC
CTTCGCTGCGATGAGTGTGGCATGCGCTTACCCGTCAGTACCGCCTCACGGAGCACATGCGTGTGCACTCGGG
CGAGAAACCTTACGAGTGCCAGCTGTGCGGGGGCAAGTTCACCCAGCAGCGCAACCTCATCAGCCACCTGCGCAT
GCACACCTCCCCCTCCTAGAAGCCAAAGACCCGCGGGCGCCCTTGCCACCTGTCTCCCCGGGAACCCATGGAAG
GAGAAGCGAGGTGATGCAGCAGCAGGGGCAAGACCTGGGTCCAGTGGAGGCTCCGGGTGGCCCCCTCTGCCCCC
ACTGCCCACACCCAGAGCTTTAATGGACAGTCCGTACCAAGCAGAGCCGAGAGGAGGAAGCCAGGGGTCCCAGC
CCGTCTACCTCCCCATCCCACCCAGGCCCCAGCTCCCGCGGGGGCCACCGCAGGGCCTGTGGGCTGGGTACAG
TGGGTCTCGCTGGGACCTGGTCCCTTTGTTGAGCGGGCTGGAGAAAGGGCAGTGGGACGCTGGCCACCGCCAG
GGTGGTGTGCGGAGCAGGCCTACCCCGCTGGCCGTGTGTGTGTGTGACGTGTGTGTGTGTGTGTGTGTGTGTGT
CGTGCAGCCCTGGTTCTGCAGGGAACAGGTGCTGGGGGTGCAGATCCCTCCCTCCTTGAGCCAGGGTGGCACTGT
TCACTGGCGCTGGGACAGTCAGGGTGACCCACCGCCTACCTCTCTACATCTAAAGAGCCCTCTGGGCCTGTGTT
GCTGTTATTCTACTGATCTGTTCTCTGTTTTTCTTTTTGATTTTTGTTTTTAAACCAAAACAGACAATAGCT
TATTTTCTTTCCGCCCCCTCCGGGGCTGAGCCTGGGTCTGAAGACTGAATGTAACAGGGGCCGCTGGCACTCCTG
CGCGTCCCCCGGCTCTGGCGCTGCAGGGGTGTGCGCGGCCACCTCTCCAGGCCCCAGAAGCCCTTCTTGCCCAA
AGGCTTCCCTGGTCCCTGAGCCCTGCCTCGGCTGCCTCAGGGGAGAGTGCTTTTCTGTAGTTTCCAAGGAATAT
TCTTTGTTTAGAGGTACTTGTTTTTTTATTAAGAGAAAAACAGTGTAACGTTTATGTGACTGTTTGAAGTGAAG
GTCTGGGGTTCCGGGGGGTGGGGGGAGGCTAGACTCAATGCCGGGGCCGTCGGTACTCTTGTTTTCATTTGTGTG
TGCGTGCGTGTGTGTGTGTGTATGTGCGTATGTGTGTGTCTATGTGTGGTGTGTGCCGTATGCATGGGCAGATGT
TTCGCTTTCCCTCCTTCTCGCTGAACAAGGTGGAGACTTCTGACCTTTTGCTACCTCTTGAATTCATGACAACG
ATATGTTGGTGACTGGCAGTGGAAGCCCTTGACACTCTTGTTCCTTCGCTTAGCACCTAGGAAGTCGTGTGCA
GGAGCCAGCAGGGCGCCAAGTGGCCAGTGCCTGCAGCTCACCTGTGGGTTTTCCCTTTGAGCCTTTGGCCACAT
CCACCTCGAGGGGACCCTGGCACCCCGGCACACAAACCTCTGTGGTATAGGTGAGGGGTGTGAGGCCCCAGCCT
GGAGCCAGGCACTGGGTGTGACAGGGGAACCATGAGGAGGGTGGCAGGTCTTTGCAGCTCCCGGCCAGGGTGTG
GCGGAAGTGAGCCCTCATCCTGCCACTCCTATCCTCCATTCTGCAAGAGTTTTAAGCTTGAGAGAGCTGACCAC
AGGGCCCCCGGGGAACAGGGATGGCACTTCCCTGAGCAGTCTGGCCCCCGGCCACTGTCTCGGGGCCACCTC
TCGCCCCCTCATCTTGGAATTAGCCAGCCTCAGATACTTCTGTGGGCCCTGAAGTGGGCTCTCAAGGTGAGACCA
AGGTTGTGATCTCAGTCCCACTGTCTTCAGCCAGCTGAAGCTGTGGGGCTGGGCTGGCAGCCTTTATTGTATC
TTGCTTACCATTTTTTTTTCTCTCTCTTTTCACTTATTTTAAGTTTAGACCAAAAAAATACAGAGTCATCCCC
TACCCCCACCCCTCTAGAGACCCTCCAGCTAAAAACAGAGCCTGAGTTCAGGGACCCAAGTGGTGAGCGGCGTCT

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FIGURE 5969B

TTTGGGGGTGAGGGAGCTTGGGTAGATGAGGCTCCTGGCTGAGCCCTCCCTGTGGTGATCCCAGCCTAAGATGGC
CCCTCTTCCCTCCTGGTGGGAGACAGAGGACTGGACCCTGGGTCTCAGGTTCCAGCAAGTCAGGCTAGGGACCTG
GGGGGAGGAGACCCATGGACTTCACCCATACTCAGTGAGGGGGCTCCTGCCGTCTGACGCCACCCCGCCCCATC
AGCACTTAAGCCACATGACACAAAGTCTGTACCGCACGGGAAATGTTACGCGCCTGGCCGTGTGCATGGCCCTC
CGGGCTGTGGGCAGCCGCATCTGTGAGGTGACTCGTGAAAGTAGGTGATTCTTTGCAGAACTTCAGGGACTGGG
AGCAGAGGCCCTCACTCAACGACGTTTGTGCGACATAGTATTGTATCCACCTTAGTATTGTATCGAGCCTTTTC
TGTGTTTTAATGAGAAAGCAGAACTAGTTTCTATTAAAGACTTTAAGGGTTTGTGGGGCGGGCGGGATTAA
CACAACATTTGGCTTTGTTTTCTTTTCTTTTGATTTCACATCAGGTGTGTGCGAGTGTGTGTGTGTGGAGATG
TTAAGAGCCTCACAAGGAACTGGGTTATTGGAGGCCAAGGCGGCTTACAGTTCTCTGCGTTCGTCACTTAATTC
CTGAATGTTTCAGAGAAAACAGGAATCAGAAAAATAGCAGATATCATGTAGGAAAGAGAGGATAAACAAGAAAAA
GAAAAAAAATAAGCTCATACCCAAATTCACAAAGCCTATTTTTAAACCAAAGCACATTTTGAATGAGTATGGA
ACCTCCATGGGCTCAGAAAAAGATGCTAATATATTATCTCATTGTTTACATAAGCTTTTACAGTTTCAGACCT
CAGCAGCTGTAAGGCCAGTCCAGGGAACCTCCCTGCTGCTGGAACCCCTTCTGAGTTGGCCCTGGAGTGGCTC
ACGGGCAGAGAAGGTTAGCCCTGGGGCTGGGGGAGGGATTGGAAGCCTCCCTGGAGTCACCTGAGCCCTCGTCCC
CATTCCCAGGGCCCTCCAAGCCAGCTGGCACCAAAGAGCTTGGGCCCCGTGCTGACAGCCCCCAAGGCCCTCT
GGCCGGACCATGCTGGTCCTGACCAGCTAGCCTACGCGGGGATGGCCGTCACTTCTGGCCACAGGACCCGAGTCT
GGGCTTGGGTCCCCCTGCTGCTCTGCCCCTGACCCTTGGGGATGGGTTGATGCGAGGGTCCCCTCAAGCCAAAA
AGCCGGGACCTTTGCGCAGCTCTGTGCACTCTGGTGGGTCCCCACTCCTGGGGCCCCCTAACCCCAAGCCAGGCA
GCGGAAGGGGCTGACTGGGTCTGGTCCTTACCAACATAGACGGTGCAAACACTCTTAACAGTGTGTTTTTGTAT
CAATATGTTTGTGCACTGATGAATGTATTTATTTCTCAGACTTGGGGCGAGTGAGCGGGTGGCAGGCCGGGCTC
GCCACTGCATGCTCCCGCCGGACCGAGCCCCAGCAAGGGCTCCTCCAGGATTGCAAAAAAAAAGGAAGAGAAAA
GATGAACCTTTAAGCAAATAAGAATCTCAGAGACTCGCAGCATAGCCATACCTCAGCCTGTGAAATGAACGAT
CCGGACCCCTCACCAACTTTCCCCACCTCAGGCAGCCCTGTGTGTTTACCGTTCATCACCCTCGGGGGACCGGG
CCGCCCACCCACTCCCAAAATCCGTGCTGATTTACTGGACCTCAGGCCCTGTGTCAGGAGTGCATCCGGGCTGGG
CCGCTGGGCAGGCTGACCCCTGCCCTCCTGCGGCCATCCTGAGTTGGGGTGAGGCCTGGGCAGCCGGAGGGCAG
GGCTCAGGGAGCAGGAGGCTGCATCCGTCCACCCCCAGGCGTGGGGGACAAAAGCCAAAGGTGCCAGGCCTTAGA
GCAGACAAGGGCTCTCAGCCCTGGCATGCCCCCTAAAGGGACCAAGGTCTCTCTATTTCCAGAACCCCGTTGGG
GCAGATGTTACTGAACCTGTGAATCAGACGCCAGGAGTGAGGGCTGGGGAGGGACCTAACTGGAGCCTCAGTCTG
ACATTCCACGCCGGGGTGGGGGTGGGCATGAGCGGTGGGAACTGAGGCTGCCAGGACCCCTTCTAGGATGCC
CCGGCTTCAGTCACCCCACTTTAACTTTCTACCAGGACCCCTCCCCCTACCTCACCTTGCTATTTATTGCTGTA
ATTTATTGACCTCAAAAATGCTGCATAACAGACCTCACTGGGGCAGGGAGGATCCCCAGGGCTCCCACCTCCAC
TTGGCGGGCCCCGTGGGGCCAGGTGCTGAGGGGAGCCTCTCTACCCACCCATCACTAGCTTCCCTCTGCCCTCT
CCCACCCCGGGGGGACCCAGGTGGGCACCTGGCTCATTCTCGCAAATACCTCGAAGGGGAGGGGGGAGGGATG
GGGTTATAGCTGTTTTGTTAATTGGAAGTGAAGAGGGATCATGTTTTGTTTTATGCCCTTCCAGAAGGGGGG
AGGGACACCGGGATCGCACTCCTGTACTGGCCACCGCCGTGTCACTTGTACATTGAGTTCATGTCCCTTGAGA
GTTTGTATAAATTCAGGTGAGAGCTGCAGCTACACAGCTGCCAGTGTATAGAAAAGCAATTCACCAACGACTG
ATCTCTCCATTGAGAAGTGTGCACTTTAAATGTACAGCGATAAGAACTGTTATTTTATGATCTTTTCATTAAA
AGCTTGATTG

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FIGURE 5970

MVSGPLALRWCAWAGRGDMGPDMELP SHSKQLLLQLNQORTKGFLCDVIIIMVENSIFRAHKNVLAASSIYFKSLV
LHDNLINLDTDMVSSSTVFQQILDFIYTGKLLPSDQPAEPNFSTLLTAASYLQLPELAALCRRKLKRAGKPFSGR
AGSTGMGRPPRSQRLSTASVIQARYQGLVDGRKGAHAPQELPQAKGSDDELFLGGSNQDSVQGLGRAVCPAGGEA
GLGGCSSSTNGSSGGCEQELGLDLSKKSPPPLPPATPGPHLTPDDAAQLSDSQHGSPPAASAPPVANSASYSELGG
TPDEPMDLEGAEDNHLSLLEAPGGQPRKSLRHSTRKKEWGKKEPVAGSPFERREAGPKGPCPGEEGEGVGDRVPN
GILASGAGPSGPYGEPPYPCKEEEEENGKDASEDSAQSGSEGGSGHASAHMYRQEGYETVSYGDNLYVCIPCAKG
FPSSEQLNAHVETHTEELFIKEEGAYETGSGGAEEEEAEDLSAPSAAYTAEP RPFKCSVCEKTYKDPATLRQHEK
THWLTRPFPNCICGMFTQRGTMTRHMRSHLGLKPFACDECGMRFTQYRLTEHMRVHSGEKP YECQLCGGKFTQ
QRNLISHLRMHTSPS

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FIGURE 5971

GGGCTGTCCGGCCCACTCCCCTGGGAGCGCGAGCGGTGGACCCAGGCGGCC**ATGT**CCCCGCCCTCGCATGCGCCTG
GTGGTCACCGCGGACGACTTTGGTTACTGCCCCGCGACGCGATGAGGGTATCGTGGAGGCCTTTCTGGCCGGGGCT
GTGACCAGCGTGTCCCTGCTGGTCAACGGTGCGGGCCACGGAGAGCGCGGCGGAGCTGGCCCCGAGGCACAGCATC
CCACGGGGCTCCACGCCAACCTGTCCGAGGGCGCCCCGTGGGTCCGGCCCCGCCGTGGCGCCTCATCGCTGCTC
GGCCCCGAAGGCTTCTTCCTTGGCAAGATGGGATTCCGGGAGGCGGTGGCGGCCGGAGACGTGGATTGCGCTCAG
GTGCGGAGCCGCAGCTACAGGAGGATGCTCGCGAGGACCCCCAGAGCTCCGCCCCGAGGGTACTGTGAGGCCGTT
AGGAGCTGGCGGTGGATGACTTCCGCATTCAAACACTGGAGCCATCACACGGAAGCACGAGGAGGGTATCCTCGG
CAGCTACTCCCGGTGCTCAAGGTGTCTCTCGCTCGCCCTCTAGGTGCGGGAGGAGCTCGAGGGCCCACTAAGCT
GCTTCCGGGAGCTGCTGGGCAGGGCCCCCACGCACGCGGACGGGCACCAGCACGTGCACGTGCTCCAGGTGGAC
AGACGCCTTCGTGGGCCTGAGCACTTGCGGCCGGCACATGTCCGCTCACCGCGTGTCCGGGGCCCTGGCGCGGGT
CCTGGAAGGTACCCTAGCGGGCCACACCCTGACAGCCGAGCTGATGGCGCACCCCGGCTACCCAGTGTGCCTCC
CACCGGCGGCTGCGGTGAAGGCCCCGACGCTTTCTCTTGCTCTTGGGAGCGGCTGCATGAGCTGCGCGTCCCTCAC
CGCGCCACGCTGCGGGCCAGCTTGCCAGGATGGCGTGAGCTTTGCGCCCTCGACGACCTGGACTCCAAGAG
GCCAGGGGAGGAGGTCCCCTGTGAGCCCACTCTGGAACCCTTCCTGGAACCCTCCCTACTCTGACCCCTACAGA
CAACCAAGCACTAATCCCCTTAGTACCAAGAAAGGGGAGCCAGGATTTAGTCCTGGCCCAGCCCAGAGCTGGGAC
CTGGAGCACGATCTGTGACTTCCCTGGGTAGGACACTGCCACCTCTGGGCTCAGGTCCTCATGCCCTCCAAATGG
CATCTAGAGTTTGAGCAGCCTTCTTGGCTGCAGGCAGGCCTAGCCTGTGGCAGCGGGCTAGGGCCCCGAGAGCAT
TTGGTGGCCCTCCATGTTGCAATGCAAACACCTTCACCACTGGGGCAGTGGGGAGAGATGGCTATATTAATAAAA
TAACGTGTGTCTTC

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FIGURE 5972

MSRPRMRLVVTADDFGYCPRRDEGIVEAFLAGAVTSVSLLVNGAATESAAELARRHSIPTGLHANLSEGRPVGPA
RRGASSLLGPEGFFLGKMGFREAVAAGDVDLPQVREELEAQLSCFRELLGRAPTHADGHQHVHVLPGVCQVFAEA
LQAYGVRFTRLPLERGVGGCTWLEAPARAFACAVERDARAAGVGFSSRHGLRWTDFAVGLSTCGRHMSAHRVSGAL
ARVLEGTLAGHTLTAELEMAHPGYPSVPP TGGCGEGPDAFSCSWERLHELRLVLTAPTTLRAQLAQDGVQLCALDDLD
SKRPGEEVPCEPTLEPFLEPSLL

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FIGURE 5973

GCTGGAGCCGGGCCGGGGCGATGTGGAGCGCGGGCCGCGGCGGGGCTGCCTGGCCGGTGCTGTTGGGGCTGCTGC
TGGCGCTGTTAGTGCCGGGCGGTGGTGCCGCCAAGACCGGTGCGGAGCTCGTGACCTGCGGGTCGGTGCTGAAGC
TGCTCAATACGCACCACCGCGTGCGGCTGCACTCGCACGACATCAAATACGGATCCGGCAGCGGCCAGCAATCGG
TGACCGGCGTAGAGGCGTCGGACGACGCGAATAGCTACTGGCGGATCCGCGGCGGCTCGGAGGGCGGGTGCCCGT
GCGGGTCCCCGGTGCGCTGCGGGCAGGCGGTGAGGCTCACGCATGTGCTTACGGGCAAGAACCTGCACACGCACC
ACTTCCCGTCGCCGCTGTCCAACAACCAGGAGGTGAGTGCCTTTGGGGAAGACGGCGAGGGCGACGACCTGGACC
TATGGACAGTGCGCTGCTCTGGACAGCACTGGGAGCGTGAGGCTGCTGTGCGCTTACAGCATGTGGGCACCTCTG
TGTTCCCTGTCAGTCACGGGTGAGCAGTATGGAAGCCCCATCCGTGGGCAGCATGAGGTCCACGGCATGCCCAGTG
CCAACACGCACAATACGTGGAAGGCCATGGAAGGCATCTTCATCAAGCCTAGTGTGGAGCCCTCTGCAGGTCACG
ATGAACCTCTGAGTGTGTGGATGGATGGGTGGATGGAGGGTGGCAGGTGGGGCGTCTGCAGGGCCACTCTTGGCAG
AGACITTTGGGTTTGTAGGGGTCCTCAAGTGCCTTTGTGATTAAAGAATGTTGGTCTATGA

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FIGURE 5974

MWSAGRGGAAWPVLLGLLLALLVPGGGAAKTGAELVTCGSVLKLLNTHHRVRLHSHDIKYGSGSGQQSVTGVEAS
DDANSYWRIRGGSEGGPCGSPVRCGQAVRLTHVLTGKNLHTHHFPSPLSNNQEVSAFGEDGEGDDLDLWTVRCS
GQHWEEAAVRLQHVGTSVFLSVTGEQYGSPIRGQHEVHGMP SANTHNTWKAMEGIFIKPSVEPSAGHDEL

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FIGURE 5975

GCTTCAGGGTACAGCTCCCCCGCAGCCAGAAGCCGGGCCTGCAGCGCCTCAGCACCGCTCCGGGACACCCACCC
GCTTCCCAGGCGTGACCTGTCAACAGCAACTTCGCGGTGTGGTGAACCTCTCTGAGGAAAAACCATTTTGATTATT
ACTCTCAGACGTGCGTGGAACAAGTGACTGAGACCTAGAAATCCAAGCGTTGGAGGTCTTGAGGCCAGCCTAAG
TCGCTTCAAAATGGAACGAAGGCGTTTGTGGGGTTCCATTTCAGAGCCGATACATCAGCATGAGTGTGTGGACAAG
CCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGCTGAAGGATGAGGCCCTGGCCATTGCCGCCCTGGAGTT
GCTGCCCAGGGAGCTCTTCCCGCCACTCTTCATGGCAGCCTTTGACGGGAGACACAGCCAGACCCTGAAGGCAAT
GGTGCAGGCCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGCTGATGAAGGGACAACATCTTCACCTGGAGACCTT
CAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCAGGAGGTTGCCCCAGGAGGTGGAACCTTCAAGTGCT
GGATTTACGGAAGAACTCTCATCAGGACTTCTGGACTGTATGGTCTGGAACAGGGCCAGTCTGTACTCATTTC
AGAGCCAGAAGCAGCTCAGCCCATGACAAAAGCGAAAAGTAGATGGTTTGAGCACAGAGGCAGAGCAGCCCTT
CATTCCAGTAGAGGTGCTCGTAGACCTGTTCTCAAGGAAGGTGCCTGTGATGAATTGTTCTCTACCTCATTGA
GAAAGTGAAGCGAAAGAAAAATGTACTACGCCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGA
TATCAAGATGATCCTGAAAAATGGTGCAGCTGGACTCTATTGAAGATTGGAAGTGACTTGTACCTGGAAGCTACC
CACCTTGGCGAAATTTTCTCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGC
ATCTTCCTACATTTCCCGGAGAAGGAAGAGCAGTATATCGCCCAGTTCACCTCTCAGTTCTCAGTCTGCAGTG
CCTGCAGGCTCTCTATGTGGACTCTTTATTTTCTTAGAGGCCGCTGGATCAGTTGCTCAGGCACGTGATGAA
CCCCTTGGAACCCCTCTCAATAACTAAGTCCCGGCTTTCGGAAGGGGATGTGATGCATCTGTCCAGAGTCCAG
CGTCAGTCAGCTAAGTGCTCTGAGTCTAAGTGGGGTCATGCTGACCGATGTAAGTCCCGAGCCCTCCAAGCTCT
GCTGGAGAGAGCCTCTGCCACCTCCAGGACCTGGTCTTTGATGAGTGTGGGATCACGGATGATCAGCTCCTTGC
CCTCCTGCCTTCCCTGAGCCACTGCTCCAGCTTACAACCTTAAGCTTCTACGGGAATTCCATCTCCATATCTGC
CTTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTGACCCACGTGCTGTATCCTGTCCCCCTGGAGAG
TTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGCTTGCCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTG
TGAGTTGGGGCGGCCAGCATGGTCTGGCTTAGTGCCAACCCCTGTCTCACTGTGGGGACAGAACCTTCTATGA
CCCGGAGCCCATCCTGTGCCCTGTTTCATGCCTAACTAGCTGGGTGCACATATCAAATGCTTCATTCTGCATAC
TTGGACACTAAAGCCAGGATGTGCATGCATCTTGAAGCAACAAAGCAGCCACAGTTTCAGACAAATGTTTCAGTGT
GAGTGAGGAAAACATGTTTCAGTGAGGAAAAAACATTCAGACAAATGTTTCAGTGAGGAAAAAAGGGGAAGTTGGG
GATAGGCAGATGTTGACTTGAGGAGTTAATGTGATCTTTGGGGAGATACATCTTATAGAGTTAGAAATAGAATCT
GAATTTCTAAAGGGAGATTCTGGCTTGGGAAGTACATGTAGGAGTTAATCCCTGTGTAGACTGTTGTAAAGAAAC
TGTTGAAAATAAAGAGAAGCAATGTGAAGCAAAAAAAAAAAAAAAAAA

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FIGURE 5976

MERRRLWGSIQSRYISMSVWTSPPRLVELAGQSLLKDEALATAALELLPRELFPPLFMAAFDGRHSQTLKAMVQA
WPFTCLPLGVLMKGQHLHLETFKAVLDGLDVLLAQEVRRRWKLQVLDLRKNSHQDFWTVWSGNRASLYSFPEPE
AAQPMTKKRKVDGLSTEAEQFFIPVEVLVDLFLKEGACDELFSLIEKVKRKKNVLRCLCKKLKIFAMPMDIKM
ILKMVQLDSIEDLEVCTWKLPTLAKFSPYLGQMINLRRLLSHIHASSYISPEKEEQYIAQFTSQFLSLQCLQA
LYVDSLFFLRGRLDQLLRHVMNPLETSLITNCRLSEGDVMHLSQSPSVSQLSVLSLSGVMLTDVSPEPLQALLER
ASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLSFYGNSSISALQSLLOHLIGLSNLTHVLYPVPLESYED
IHGTLHLERLAYLHARLRELLCELGRPSMVWLSANPCPHCGDRTFYDPEPILCPCEMPN

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FIGURE 5977

AACGCCAGCGCCTGCGCACTGAGGGCGGCCTGGTCGTCGTCGCGGCGGCGGCGGCGGCTGAGGAGCCCGGCTGA
GGCGCCAGTACCCGGCCCCGGTCCGCATTTTCGCCTTCCGGCTTCGGTTTCCCTCGGCCCCAGCACGCCCCGGCCCCG
CCCCAGCCCTCCTGATCCCTCGCAGCCCCGGCTCCGGCCCCCGCCTCTGCCGCGCAATGATGATGATGGCGCTG
AGCAAGACCTTCGGGCAGAAGCCCGTGAAGTTCCAGCTGGAGGACGACGGCGAGTTCTACATGATCGGCTCCGAG
GTGGGAAACTACCTCCGTATGTTCCGAGGTTCTCTGTACAAGAGATAACCCCTCACTCTGGAGGCGACTAGCCACT
GTGGAAGAGAGGAAGAAAATAGTTGCATCGTCACATGATCACGGATACACGACTCTAGCCACCACTGTGACCCTG
TTAAAAGCCTCGGAAGTGGAAGAGATTCTGGATGGCAACGATGAGAAGTACAAGGCTGTGTCCATCAGCACAGAG
CCCCCACCTACCTCAGGGAACAGAAGGCCAAGAGGAACAGCCAGTGGGTACCCACCCTGCCAACAGCTCCAC
CACTTAGATGCCGTGCCATGCTCCACAACCATCAACAGGAACCGCATGGGCCGAGACAAGAAGAGAACCTTCCCC
CTTTGGTGTGGATGCATCGCTGCACTCACCCCTCCGTGCTGATTCCGCCTTAGTTCTCCACTTTGATGACCATGAC
CCAGCTGTGATCCATGAGAACGCATCTCAGCCCCGAGGTGCTGGTCCCCATCCGGCTGGACATGGAGATCGATGGG
CAGAAGCTGCGAGACGCCTTCACCTGGAACATGAATGAGAAGTTGATGACGCCTGAGATGTTTTCAGAAATCCTC
TGTGACGATCTGGATTTGAACCCGCTGACGTTTGTGCCAGCCATCGCCTCTGCCATCAGACAGCAGATCGAGTCC
TACCCACGGACAGCATCCTGGAGGACCAGTCAGACCAGCGCGTCATCATCAAGCTGAACATCCATGTGGGAAAC
ATTTCCCTGGTGGACCACTTTGAGTGGGACATGTCAGAGAAGGAGAACTCACCAGAGAAGTTTGCCCTGAAGCTG
TGCTCGGAGCTGGGGTTGGGCGGGGAGTTTGTACCACCATCGCATACAGCATCCGGGGACAGCTGAGCTGGCAT
CAGAAGACCTACGCCTTCAGCGAGAACCCTCTGCCACAGTGGAGATTGCCATCCGGAACACGGGCGATGCGGAC
CAGTGGTGCCCACTGCTGGAGACTCTGACAGACGCTGAGATGGAGAAGAAGATCCGCGACCAGGACAGGAACACG
AGGCGGATGAGGCGTCTTGCCAACACGGCCCCGGCCTGGTAAACAGCCCATCAGCACACGGCTCCCACGGAGCAT
CTCAGAAGATTGGGCCGCCTCTCCTCCATCTTCTGGCAAGGACAGAGGCGAGGGGACAGCCCAGCGCCATCCTGA
GGATCGGGTGGGGTGGAGTGGGGGCTTCCAGGTGGCCCTCCCGGCACACATTCCATTGTTGAGCCCCAGTCC
TGCCCCCACCCACCCCTCCCTACCCCTCCCCAGTCTCTGGGGTCAGGAAGAAACCTTATTTTAGGTTGTGTTTT
GTTTTTGTATAGGAGCCCCAGGCAGGGCTAGTAACAGTTTTTAAATAAAAGGCAACAGGTCATGTTCAATTTCTT
C

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FIGURE 5978

MMMALSKTFGQKPVKFQLEDDGEFYMGSEVGNYLRFGRSLYKRYPSLWRRLATVEERKKIVASSHDHGYTTL
ATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMG
KKRTFPLWCGCIAALTTLRADSAVLHFDHDPVAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTP
MFSEILCDDLNLPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNHVGNISLVDQFEWDMSEKENSPE
KFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIR
DQDRNTRRMRLANTAPAW

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FIGURE 5979

ACCACAGTGGTGTCCGAGAAGTCAGGCACGTAGCTCAGCGGCGGCCGCGGCGCGTGTGTGCCTCTGCGCGG
GTCTCCTGGTCCTTCTGCCATCATGCCGATGTTTCATCGTAAACACCAACGTGCCCCGCGCCTCCGTGCCGGACGG
GTTCTCTCCGAGCTCAGCCAGCAGCTGGCGCAGGCCACCGGCAAGCCCCCAGTACATCGCGGTGCACGTGGT
CCCGGACCAGCTCATGGCCTTCGGCGGGCTCCAGCGAGCCGTGCGCGCTCTGCAGCCTGCACAGCATCGGCAAGAT
CGGCGGCGCGCAGAACCGCTCCTACAGCAAGCTGCTGTGCGGCCTGCTGGCCGAGCGCCTGCGCATCAGCCCGGA
CAGGGTCTACATCAACTATTACGACATGAACGCGGCCAATGTGGGCTGGAACAACCTCCACCTTCGCCTTAAGAGCC
GCAGGGACCCACGCTGTCTGCGCTGGCTCCACCCGGGAACCCGCCGCACGCTGTGTTCTAGGCCCGCCACCCCA
ACCTTCTGGTGGGGAGAAATAAACGGTTTAGAGACT

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FIGURE 5980

MPMFIVNTNVPRASVPDGF LSELTQQLAQATGKPPQYIAVHVVPDQLMAFGGSSEPCALCSLHSIGKIGGAQNRS
YSKLLCGLLAERLRISPDRVYINYYDMNAANVGWNNSTFA

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FIGURE 5981A

TTGGGCGAGAGGGTGGGGCCACTCAACGCTGAGGCGGCGAATGGCCGGAGCAGACTTAAATCAAGAGGCTGGGGA
CCTCTAAGATCAAAGTTTGGGGCGGGGCTAAGGAGGGGGCGGGGCTCCAGATTTCGAGACCTGGAAGGGCTGGG
GCGGCGCTTGGGGCGGGCCAGCCGCCGCTCCCGTTCTCTCTCCGAGCGGGCGGGTGGCGGAGAAGGAACTC
GACACGCACCGACCGCCCTCCCGCCCCAGCCGAAGCGGAAGCTGTAGCCCGCTCTGGGCCGGGGCCATGGGCGCC
CCGCGCCCGGGGTCTATGAGGACGGAGGCGGAGGCAGCGGGGCCGCGCTCGAGCCCGGGGACTTTGTGCAACT
GCCTGTGCCCCTATCCAGCAGCTCTACCACTGGGACTGTGGCCTGGCCTGCTCCAGGATGGTGTGCTGCAGGTACC
TGGGCCAGCTGGACGACAGTGAGTTTGAGAGAGCCCTGCAGAAAGCTGCAGCTGACCAGGAGCATCTGGACCATCG
ACCTGGCCTACCTGATGCACCACTTTGGCGTGAGGCACCGCTTCTGTACCCAGACCCTGGGTGTGACAAGGGCT
ACAAGAACCAGTCTTCTACAGGAAGCACTTTGACACAGAAGAGACCCGGGTGAATCAGCTGTTTGCACAAGCAA
AGGCCTGCAAGGTGCTGGTGGAGAAATGCACAGTGAGTGTGAAGGACATCCAGGCGCACCTGGCTCAGGGCCATG
TGGCCATCGTGCTGGTGAATCTGGGGGTGCTGCACTGTGACCTGTGCTCCAGCCCTGTCAAGTACTGCTGCTTCA
CCCCAGTGGCCACCACTGCTTCTGCCGCACTCTGACTACCAGGGCCACTTCATCGTGCTGCGTGGCTACAACC
GGGCCACTGGCTGCATCTTCTACAACAACCCAGCCTATGCCGACCCAGGAATGTGCAGCACCAGCATCAGTAACT
TTGAGGAGGCCAGAACCAGCTATGGCACAGATGAGGACATCTCTTTGTCTACTTGGACAGCTGACAGCAGGAGC
CTGGTGGCCTAGGCCCTCGGACCCCATCCCCACCCAGCCGGGCGCGCTCAGGATGCCCTGGCCCAGGCTTGGG
GCTGCTGGGGTTGGAATGTGGAAGTGCAGCCTCAGCCCATCTGGCAGAGTCCAGGAACTCGGAGACTGGCACAG
CTGCTTTGTCTGCCAGTGCCGTGTGTTGTCTATGTCACTCACCACAAGCACCTGCTGGCTGCTGGAAGCATACCC
AAGACCCCAAGCCTTGACTCCAGCTGCGCCACAGGAAGTCCAGTCCCGACAGTGCCCTTGTTGCCTTTGAGCCA
GATCCATGGCAATGGTCTCCCCACAGACCGCAGGACTGAGCCTGGAGAGAGAAGTTGCTTGACGGATGCCACTTG
TCAGGACAGTATGTGAGTGTCTGGAGACAGCATAGCTGACCCCAATCCCCAGGGCTGAGGACCCCTCCAGGCC
CTCTCTCTGGAAGTGTGTCATATGCCCTGTGCCAGTGGTTGATGATACCACCACCACTGCCTACCCATGGG
CCCAAGTTTCTGTGGCTCATTACAGGGCATCTGACCCTGCCACCCAGCATAGACACACCTCACAGCTGCCCTGC
CATGCAGAGCCCTGGCGCTGGAGACTCTTAAAGCCCCACAGCCCTCCAGGTCTCCAGCTCTGTCTAGATGGAG
GGCTCTCGGGCCTAGATCCCACTGGTAGGCCTCGTGGCTGGCAGCAGTGCTCTGGGAATAAACAGCTGCCCTAGC
CCCAGAGGATCCCTGCACCCAGGAGGCCTCTGACACCAGCCAAAATCCTGACAGCAGGGTCTGCCCTCTTGAG
TGTGGGGAGCCCTAGTCTTTAAGGTTGGCTGTCTAAGGCCTGTGCTCCAAAGCAACGGGCTGGGGCAGCCTGCA
GCTGCCACCCCACTGGTCTTACACCAGATGTACACAGGATAGCTCTTTCTCTCTCTTTTGGGGAGGTTGGGGT
GTTCTCTGCCAGGATCTTACAACACAGCAAGTAGCATAGAGCTCTTTCTCTCTCTTTTGGGGAGGTTGGGGT
CAGGGGTTGTTTCTTTGAGATTTAAGTTTTATTTTTGAGGGGTAATCACCTTCAAGTAAACAGTAATAGCAAG
AGTGAAGGTACTTTGGAACCACTAACACCTCTGCACAGGGCAGTTAGCCAGCTCAAGTTCTTTTTTTCAGAGAAAGG
GACTTGGCCAGTGTTTTAAGTACCTGCCCTTACCTCTCAGACGAGGCAGCTGACGAGGCAGCTGGCCCAGTCT
TGGGAGTCTGCTCAGGACAGTGGTGGAGCTGGGTCTTGAACCCAGTCTGCACCTAAAAAATAAGGAAATGGA
TTTTTTTTTTTTTTTTTTGAGACGGAGACTCACTCTGTTGCCAGACTGGAGTGCAGTGGCACGATCTTGGCTTAC
TACAACCTCCGCTCCTGGGTTCAAGCGATCCTCTGCCTCAGCCCCCACTAGCTGGGACTACAGGCACATGCC
ACCATGCCCGGCTAATTTTTTTTGTATTTTTAGTAGAGACCAGGCTTCGCCATGTTGGCCAGGCTGGTCTCGAACC
CCTGAGCTCAGGTGATCCACCTGCCTCGGCCTCCCAAAGTGGGAAATGGGTCATTTTTCAAAGGGGCAACAGTGAT
ACCATCCCTGCACTCCTGGGTCTGCTCTTCCAATGCCAAGGCATGGCATGGTGGCAGCTGTGCCCCGCCCAT
TGCTTTGGAGCACAGATGACTCTGGGGGAGAGGTGGGCTCTGTTTAGGAGGGCAGTGAGACCCAGCCAAAT
TGCTTCTCAACCCTAGACAAAGCCTTTGGCCAAGAGGGAGGTGCTGTTAGTTGGGCAGCCCTTCTGGGTTTCA
GACCGGTGTTGGCTCTAGACTGGTCTCATCTCCATTGCCCTTAATGCCAGGTGGCCAGGAGTACCCATGCACAGC
AGCTGTGGGGTGTGGGCATCTTCAAGTGGTGTCTGGTAAATTTGTTAGAATAGCTGTATGAAGGAAACAGTG
GAGGAAATGAAGTTTTTCAAGATGGTGGGATGTGATTTAGACAGTGACATGCTGTTAGGGCTGTCACTAGGGAGT
GGCCTTCATGGAGGGTGGTAACAGCACCTCAGTCCAGCCAAAATGTTTAGAAACACTCAGTCTCTGGTCCCAGAG
GATGGCTTCTCAGGGCATGCCACAAGTTAAAGGTACCTTCTGAAAGATGAATGAGAAAGCTGCCATTCTCAA
GACTCATCTGCCTAGGGAGGGTCACAGAGGCAGGATGTAAGACACACTGTGTTGCATTCTTGACAAGTCATGAA
AATGGAGCCAGAGAGCCTGGACATCAGGGACTTTTGCCACAGCACATGACACGACAGCTGCCAGCCTGTTCA
CATGCTGGGGACCAGCACAGCACCTGAAGCCATGTGGGACAGTTGGGCTTTGTTCTATTCTAGCCACGGGGATGAA
AGGGATCTTTTGCATTGCAGAGATTTTATATATATTTTGTGTTGTAATGAGCCATTCTCAATAAACATTATTCTCA

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FIGURE 5981B

CTGC

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FIGURE 5982

MHHFGVRHRFCTQTLGVDKGYKNQSFYRKHFDTEETRVNQLFAQAKACKVLVEKCTVSVKDIQAHLAQGHVAIVL
VNSGVLHCDLCSSPVKYCCFTPSGHHCFCTPDYQGHFIVLRGYNRATGCIFYNNPAYADPGMCSTISISNFEEAR
TSYGTDEDILFVYLDs

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FIGURE 5983

TCTTGA CTCACGCCTTCGCCGTAGCATCTTTTCGCAGCGGACCGAAGAGAAGAAAAGTAGGCCAGAGCCGAACCTCT
CTTCCTGCCAAGATGCTCTATTGGTGTGCCGATTAAAGTACTGCATGAGGCCGAGGGCCACATTGTGACATGTGAG
ACGAACACCGGTGAGGTATATCGGGGGAAGCTCATTGAAGCAGAGGACAACATGAACTGCCAGATGTCCAACATC
ACAGTCACATACAGAGATGGCCGAGTGGCACAGCTGGAGCAGGTATACATCCGTGGCAGCAAAATCCGCTTTCTG
ATTTTGCCTGACATGCTGAAGAACGCACCCATGTTAAAGAGCATGAAAAATAAAAACCAAGGCTCAGGGGCTGGC
CGAGGAAAAGCTGCCATTCTCAAGGCCCAAGTGGCCGCAAGAGGAAGAGGACGTGGAATGGGACGTGGAAACATC
TTTCAAAAGCGAAGATAATTTTCTAAGTTGAACAGAACTTTGTCCTTTTTTCTTTTCAGGTTATCTGAGTTCATTG
GAGTGGGTGCTTGTGCATATATCTAGGTATCTTTTGCCATCTTTCTCTTTAGATCAGGGGAAATGTTTAAGCTAA
ATAAATCTGGGGGGTTTTTTGTTCTG

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FIGURE 5984

MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPD
MLKNAPMLKSMKNKNQGSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR

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FIGURE 5985

CATTGCAGTACACTGAGCTCCACAGAGACAGCGCCGGGGCAAGTGAGAGCCGGACGGGCACTGGGCGACTGTGCC
TCGCTGAGGAAAAATAACTAAACATGAGCAAAGGAGATCCTAAGAAGCTGAGAGGCAAAATGTCATCACATGCAT
TTTTTGGGCAAAC TTGTCGGGAGGCGCATAAGAAGAAGCACCCAGATGCTTCAGTCAACCTCTCAGAGTTTTCTA
AGAAGTGCCCATACGAAAGAGAAATGAAAACCTATATCCCTCCCAAAGGGGAGACAAAAAGAAGTTCAAGGAT
CCGAATGCACCCAAGAGGACTCCTTCGGCCTTCTTCCTGTTCTGCTCTGCGTATCGCCCAAAATCAAAGGAGAA
CATCCTGGCCTGTCCATTGGTGATGTTGCGAAGAACTGGGAGAGATGTGGAATAACACTGCCGCAGATGACAAG
CAGCCTTATGAAAAGAAGGCTGCGAAGCTGAAGGAAAAATACGAAAAGGATATTGCTGCATATCGAGCTAAAGGA
AAGCCTGATGCAGCAAAAAGGGAGTTGTCAAGGCTGAAAAAAGCAAGAAAAAGAAGGAAGAGGAGGAAGATGAG
GAAGATGAAGAGGATGAGGAGGAGGAAGATGAAGAAGATGAAGATGAAGAAGATGATGAATAAGTTGGTTCTAGC
GCAGTTTTTTTTTCTTGTCTATAAAGCATTTAACCCCCCTGTACACAACCTCACTCCTTTTAAAGAAAAAAATTG
AAATGTAAGGCTGTGTAAGATTTGTTTTTAACTGTACAGTGTCTTTTTTGTATAGTTAACACACTACCGAATG
TGTCTTTAGATAGCCCTGTCCTGATGGTATTTTCAATAGCCGCTAACCTTGCCTGGTACAGTATGGGGCTGTAA
ATTGGCATGGAAATTTAAAGCGGGTTCTTGTGGTGCACAGCACAATTAGTTATATATGGGGATGATAGTTTTT
TCATCTTCAGTTGTCTCTGATGCAGCTTATACGAAATAATTATTCTGTAACTGAATACCACTCTGTAATTGCAA
AAAGAAAAAGTTGCAGCTGTTTTGTTGACATTCTGAATGCTTCTAAGTAAATACAATTTTTTTATTAG

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FIGURE 5986

ATGGGTGCATACAAGTACATCCTGGAGCTATGGAGAAAGAAGCAGTCTGATGTCATGCGCTTTCTTCTGAGGGTC
CGCTGCTGGCAGTACCGCCAGCTATCTGCTCTCCACAGGGCTCCCCGCCCCACCCGGCCTGATAAAGTGCACCGA
CTGGGCTACAAACAAGGCCAAGCAAGTGACAGTGAGTCGTGTGGACCTGGTAAAATCACCAACTTCTCTGATTCT
CCTTATCTTGAAAACAGGGATGATAATGCTCCCCCTACCCACAGATGCTGTGACGTTCCAAGCAGACATCTAA

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FIGURE 5987

GGCGCTGGGCGGCTGCGGCGCGCGGTGCGCGGTGCGTAGTCTGGAGCTATCGTGGTGGTGGCAGCCGCGCCGAAC
CCGGCCGACGGGACCCCTAAAGTTCGTCTTCTGTCGGGGCAGCCCGCTCCGCGCGCGGAGCCCCGGCCGGCCAG
GCCCTGCCGCTCATGGTGCCAGCCCAGAGAGGGGCCAGCCCGGAGGCAGCGAGCGGGGGGCTGCCCCAGGCGCGC
AAGCGACAGCGCCTCACGCACCTGAGCCCCGAGGAGAAGGCGCTGAGGAGGAACTGAAAAACAGAGTAGCAGCT
CAGACTGCCAGAGATCGAAAGAAGGCTCGAATGAGTGAGCTGGAACAGCAAGTGGTAGATTTAGAAGAAGAGAAC
CAAAAACTTTTGCTAGAAAATCAGCTTTTACGAGAGAAAACCTCATGGCCTTGTTAGTTGAGAACCAGGAGTTAAGA
CAGCGCTTGGGGATGGATGCCCTGGTTGCTGAAGAGGAGGCGGAAGCCAAGGGGAATGAAGTGAGGCCAGTGGCC
GGGTCTGCTGAGTCCGCAGCACTCAGACTACGTGCACCTCTGCAGCAGGTGCAGGCCAGTTGTACCCCTCCAG
AACATCTCCCCATGGATTCTGGCGGTATTGACTCTTCAGATTGAGTCTGATATCCTGTTGGGCATTCTGGACA
ACTTGGACCCAGTCATGTTCTTCAAATGCCCTTCCCCAGAGCCTGCCAGCCTGGAGGAGCTCCCAGAGGTCTACC
CAGAAGGACCCAGTTCCCTTACCAGCCTCCCTTTCTCTGTGAGTGGGGACGTCATCAGCCAAGCTGGAAGCCATTA
ATGAACTAATTCGTTTTGACCACATATATACCAAGCCCCTAGTCTTAGAGATACCCTCTGAGACAGAGAGCCAAG
CTAATGTGGTAGTGAAAATCGAGGAAGCACCTCTCAGCCCCCTCAGAGAATGATCACCTGAATTCATTGTCTCAG
TGAAGGAAGAACCCTGTAGAAGATGACCTCGTTCCGGAGCTGGGTATCTCAAATCTGCTTTCATCCAGCCACTGCC
CAAAGCCATCTTCCTGCCTACTGGATGCTTACAGTGACTGTGGATACGGGGGTTCCCTTTCCCCATTGAGTGACA
TGTCTCTCTGCTTGGTGTAACCATTCCTGGGAGGACACTTTTGCCAATGAACTCTTTCCCCAGCTGATTAGTG
TCTAAGGAATGATCCAATACTGTTGCCCTTTTCTTACTATTACACTGCCTGGAGGATAGCAGAGAAGCCTGTC
TGTAATTCATTCAAAAAGCCAAAATAGAGAGTATACAGTCCTAGAGAATTCCTCTATTGTTGAGATCTCATAGA
TGACCCCCAGGTATTGTCTTTTGACATCCAGCAGTCCAAGGTATTGAGACATATTACTGGAAGTAAGAAATATTA
CTATAATTGAGAACTACAGCTTTTAAGATTGTACTTTATCTTAAAAGGGTGGTAGTTTTCCCTAAAATACCTTAT
TATGTAAGGGTCATTAGACAAATGTCTTGAAGTAGACATGGAATTTATGAATGGTTCTTTATCATTTCTCTTCCC
CCTTTTGGCATCCCTGGCTTGCCCTCCAGTTTTAGGTCTTTAGTTTGCTTCTGTAAGCAACGGGAACACCTGCTG
AGGGGGCTCTTTCCCTCATGTATACTTCAAGTAAGATCAAGAATCTTTGTGAAATTATAGAAATTTACTATGTA
AATGCTTGATGGAATTTTTTCTGCTAGTGTAGCTTCTGAAAGGTGCTTTCTCCATTTATTTAAACTACCCATG
CAATTAAAAGGTACAATGCAAAAAAAAAAAAAAAAAA

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FIGURE 5988

MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALR
RKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEEAEA
KGNEVRPVAGSAESAALRLRAPLQQVQAQLSEPLQNI SPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLP
AWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN

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FIGURE 5989

AGAGGGAGACGGACGTTGAGAGAACGAGGAGGAAGGAGAGAAAATGCGCTCCACGGATTACAGTACCTATAGCCA
AGCTGCAGCGCAGCAGGGCTACAGTGCTTACACCGCCCAGCCCACTCAAGGATATGCACAGACCACCCAGGCATA
TGGGCAACAAAGCTATGGAACCTATGGACAGCCCACTGATGTCAGCTATACCCAGGCTCAGACCACTGCAACCTA
TGGGCAGACCGCCTATGCAACTTCTTATGGACAGCCTCCCACTGGTTATACTACTCCAAGTCCCCCCCAGGCATA
CAGCCAGCCTGTCCAGGGGTATGGCACTGGTGCTTATGATACCACTGCTACAGTACCACTACCCAGGCCTC
CTATGCAGCTCAGTCTGCATATGGCACTCAGCCTGCTTATCCAGCCTATGGGCAGCAGCCAGCAGCCACTGCACC
TACAAGACCGCAGGATGGAACAAGCCCACTGAGACTAGTCAACCTCAATCTAGCACAGGGGGTTACAACAGCC
CAGCCTAGGATATGGACAGAGTAACCTACAGTTATCCCCAGGTACCTGGGAGCTACCCCATGCAGCCAGTCACTGC
ACCTCCATCCTACCTCCTACAGCTATTCTCTACACAGCCGACTAGTTATGATCAGAGCAGTTACTCTCAGCA
GAACACCTATGGGCAACCGAGCAGCTATGGACAGCAGAGTAGCTATGGTCAACAAAGCAGCTATGGGCAGCAGCC
TCCCACTAGTTACCCACCCCAAAGTGGATCCTACAGCCAAGTCCAAGTCAATATAGCCAACAGAGCAGCAGCTA
CGGGCAGCAGAGTTTATTCCGACAGGACCACCCAGTAGCATGGGTGTTTATGGGCAGGAGTCTGGAGGATTTTC
CGGACCAGGAGAGAACCGGAGCATGAGTGGCCCTGATAACCGGGGCAGGGGAAGAGGGGGATTGATCGTGGAGG
CATGAGCAGAGGTGGGCGGGGAGGAGGACGCGGTGGAATGGGCAGCGCTGGAGAGCGAGGTGGCTTCAATAAGCC
TGGTGGACCCATGGATGAAGGACCAGATCTTGATCTAGGCCCTCCTGTAGATCCAGATGAAGACTCTGACAACAG
TGCAATTTATGTACAAGGATTAAATGACAGTGTGACTCTAGATGATCTGGCAGACTTCTTTAAGCAGTGTGGGGT
TGTTAAGATGAACAAGAGAACTGGGCAACCCATGATCCACATCTACCTGGACAAGGAAACAGGAAAGCCCAAAGG
CGATGCCACAGTGTCTTATGAAGACCCACCCACTGCCAAGGCTGCCGTGGAATGGTTTGATGGGAAAGATTTTCA
AGGGAGCAAACCTTAAAGTCTCCCTTGCTCGGAAGAAGCCTCCAATGAACAGTATGCGGGGTGGTCTGCCACCCCG
TGAGGGCAGAGGCATGCCACCACCACTCCGTGGAGGTCCAGGAGGCCCAGGAGGTCTTGGGGGACCCATGGGTGCG
CATGGGAGGCCGTGGAGGAGATAGAGGAGGCTTCCCTCCAAGAGGACCCCGGGGTTCCTGAGGGAACCCCTCTGG
AGGAGGAAACGTCCAGCACCGAGCTGGAGACTGGCAGTGTCCCAATCCGGGTGTGGAAACAGAACTTCGCCTG
GAGAACAGAGTGCAACCAAGTGTAAAGGCCCAAAGCCTGAAGGCTTCCCTCCCGCCACCCCTTCCGCCCCGGGTGG
TGATCGTGGCAGAGGTGGCCCTGGTGGCATGCGGGGAGGAAGAGGTGGCTCATGGATCGTGGTGGTCCCGGTGG
AATGTTTCAAGAGGTGGCCGTGGTGGAGACAGAGGTGGCTTCCGTGGTGGCCGGGCATGGACCGAGGTGGCTTTGG
TGGAGGAAGACGAGGTGGCCCTGGGGGGCCCCCTGGACCTTTGATGGAACAGATGGGAGGAAGAAGAGGAGGACG
TGGAGGACCTGGAAAAATGGATAAAGGCGAGCACCGTCAGGAGCGCAGAGATCGGCCCTACTAGATGCAGAGACC
CCGAGAGCTGCATTGACTACCAGATTTATTTTTTAAACCAGAAAATGTTTTAAATTTATAATTCCATATTTATA
ATGTTGGCCACAACATTATGATTATTCCTTGCTGTACTTTAGTATTTTTTACCATTGTGTAAGAAACATTAAAA
CAAGTTAAATGGTAGTGTGCGGAGTTTTTTTTTCTTCTTCTTTTAAAAATGGTTGTTTAAAGACTTTAACAATGG
GAACCCCTTGTGAGCATGCTCAGTATCATTGTGGAGAACCAAGAGGGCCTCTTAACTGTAACAATGTTTCATGGTT
GTGATGTTTTTTTTTTTTTTTTTAAATAAAATTCCAAATGTTTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5990

MASTDYSTYSQAAAQQGYSAYTAQPTQGYAQTQAYGQQSYGTYGQPTDVSYTQAQTTATYGQTAYATSYGQPPT
GYTTPTAPQAYSQPVGYGTYGAYDTTATVTTTQASYAAQSAYGTQPAYPAYGQQPAATAPTRPDGKNKPTETSQ
PQSSTGGYNQPSLGYGQSNYSYPQVPGSYPMQPVTAAPPSPPTSYSSSTQPTSYDQSSYSQQNTYGPSSYGQQSS
YGQQSSYGQQPPTSYPPTGSYSQAPSQYSQQSSSYGQQSSFRQDHPSSMGVYGQESGGFSGPGENRSMSPDNR
GRGRGGFDRGGMSRGGRRGGGRGGMGSAGERGGFNKPGGPMDEGPDLDLGPPVDPDESDNSAIYVQGLNDSVTLD
DLADFFKQCGVVKMNKRTGQPMIHIYLDKETGKPKGDATVSYEDPPTAKAAVEWFDGKDFQGSKLKVS LARKKPP
MNSMRGGLPPREGRGMPPPLRGPGGGPGGPGGPMGRMGGRGGDRGGFPFRGPRGSRGNP SGGGNVQHRAGDWQCP
NPGCGNQNFARTECNQCKAPKPEGFLPPFPFPPGGDRGRGGPGGMRGGRGGLMDRGGPGGMFRGGRRGGDRGGFR
GGRGMDRGGFGGRRGGPGGPPGPLMEQMGGRRGGRRGGPGKMDKGEHRQERRDRPY

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FIGURE 5991

GGACGCATAGAGCTGCGGCTCGGGCGGGCGCCTCCCTGCGGGCGGCCCGGCCCGGCTCCGGCCCCGCTGGGGCAAT
GCTCCCCGGGGCCGCGGGATGAGCCAGCGATCCTGAACTGTGTTCTGCCCACAGTGACTCGGCCGGTCCGGGCA
TGGCAGACCCAGTGGCGGGCATCGCGGGTTTCGGCGGCCAAGAGCGTGCGGCCATTTTCGCTCCAGTGAGGCCTACG
TGGAGGCCATGAAGGAGGACCTGGCCGAGTGGCTCAATGCCTTGTACGGCCTGGGTCTCCCGGGTGGTGGCGATG
GCTTCCTGACAGGGCTGGCCACGGGCACGACCCTGTGCCAACATGCCAACGCCGTGACCGAGGGCTGCCCCGTGCAT
TGGCAGCCGCCCGCCCGGCCGAGGTGTGGCCTTCAGGCGCACAGTGTAGTGCCTGGCTCCTTCATGGCGCGCG
ACAACTGTGGCCACCTTCATCGGCTGGTGCCGCGTGGAGCTGGGTGTGCCGGAGGTGCTCATGTTTGAGACTGAGG
ACCTGGTGTGCGCAAGAACGAGAAGAGCGTGGTGTGTGCCTGTCTGGAGGTGGCGCGGGCTGGGGCACGCCTGG
GCCTGCTGGCCCCACGCCTCGTGAGTTTGAGCAGGAGATTGAGCGGGAGCTGCGTGTGACCCCCAGCCCCA
ACGCCCTGCGCTGGGGAGGACACCACTGAAACCGCCCCCGCACCAGGGACTCCTGCCCCGCGGCCCCCGCATGA
CACCAGCGACCTGCGCAACCTCGACGAGCTGGTGAGGGAGATTCTGGGCCGCTGCACCTGCCCTGACCAGTTTC
CCATGATCAAGGTCTCAGAGGGGAAGTACCGTGTGGGGGACTCGAGCCTGCTCATCTTTGTGCGGGTGTGAGGA
GCCACGTGATGGTGCGAGTGGGTGGTGGCTGGGACACGCTGGAGCATTACCTGGACAAGCACGACCCGTGCCGCT
GCTCCTCCACTGCTCATCGCCACCCAGCCGAGGGTCTGCACCTTTTCTCCACAGAGGGTGTGCCCCACCACCA
GTCCCCGCCCTGCTAGCCAGTCCCTGGGAGTGAGCGCGGGGGCTCCCGGCCTGAGATGACTCCCGTTAGCTTAC
GAAGCACAAAGGAGGGGGCCGAGACCCACCCAGGCCCGGGATCAGTGCCCCCCCATCCCGCTCCCGCCGCT
ACTCCGGGGACAGTGACTCCTCAGCCTCCTCCGCCAGAGCGGCCCCCTTGGTACCCGCAGTGATGACACAGGCA
CTGGCCCCCGGAGGGAGCGACCCAGCCGGCGGCTGACCACAGGCACCCCGGCCTCTCCGAGACGGCCTCTGCC
TGCGCAGCCAGTCCCGAGACCGGCTGGATCGCGGCCCGGCCCGGGGGGCCAGGAGGCAGGGGAGCCAGCTGT
CGGTCCCCAGCCCTGCCCCGGCGGGCCCGGAGCCAGAGCCGCGAGGAGCAGGCTGTGCTGCTTGTGCGCAGGGATC
GAGACGGGCAGCACTCATGGGTGCCAAGGGGCAGGGGCAGTGGGGGCTCGGGCAGGAGCACCCCCAGACTCCCC
GTGCCCGCAGCCCTGCAGCACCCCGGCTTTCCCGGGTCTCCAGCCCACTCCAGAGTTGGGCACCACACCGGCCA
GCATCTTCCGCACACCCCTGCAGCTCGACCCGCAGCAGGAGCAGCAGCTGTTCCGGCGCCTGGAAGAGGAGTTCC
TGGCAATGCCCCGGGCCCTTGAGGCTGTTGCTAGCGTGACCCCACTGGACCAGCCCTGACCCAGCTCGGGCCC
CCGACCCTCCAGCTCCTGACTCTGCCTATTGTTCTCCAGTTCCTCCTCTTCGTCCCTCAGCGTCTTGGGTGGCA
AATGTGGCAACCTGGGGACTCTGGCCGGACGGCCAATGGGCTGCCTGGGCCCCGAAGCCAAGCCCTTCCAGCT
CCTCCGATGAAGGCAGCCCTGCCCTGGCATGGGGGGGCCACTAGATGCACCTGGGAGCCCTGGCTTGCACTG
AACCTCGAGGACCTGGGCACGGGTGGATGGACACACAGCCAGACCGTAAACCCTCACGTATCCCCACGCCTC
GGGGCCCCCGCCGCCCTCCGGACCCGCAAGAGTGGGGACATGGCATGCCCTGCACTCAGTCACCCGAGGGCTG
AGCCAGATTCTGGATGTGATGGACCAGCTCAGCTGTCCCAGACCCCATCCCTTCTCCTTTTCTTTGTGGCCT
TAACCCTTCTGCATCAGGGAGCCCCCTCTGCCTCTTGAGTACCAGACCTCATGGGACCAGACCCCTGGGACCAC
ATGGCACAAATGGGACCTCTGTTGTACATTCCGGTTGGGGGATGAGCGTTGCTATTTAATTACTAATATTATTGAA
TGCCTTAGAGGAGGCCGGGCGAGCCGGTGTCTGAAGACCTGTGGCCAGCAGAGCCTCTGACAGTAAAGTTTT
GCTCCAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5992

MADPVAGIAGSAAKSVRPFRSSEAYVEAMKEDLAEWLNALYGLGLPGGGDGFLTGLATGTTLCQHANA VTEAARA
LAAARPARGVAFQAHSVVPGSFMARDNVATFIGWCRVELGVPEVLMFETEDLVLRKNEKSVVLCLEVARRGARL
GLLAPRLVQFEQEIERELRAAPPAPNAPAAGEDTTETAPAPGTPARGPRMTPSDLRNLDELVREILGRCTCPDQF
PMIKVSEGKYRVGDSSLLIFVRVLRSHVMVRVGGGWDITLEHYLDKHDP CRCSSTAHRPPQPRVCTFSPQRVSP TT
SPRPASPVPGSERRGSRPEMTPVSLRSTKEGPE TPRPRDQLPPHPRSRYSGDS DSSASSAQSGPLGTRSDDTG
TGPRRERPSRRLTTGTPASPRRPPALRSQSRDRLDRGRPRGAPGGRG AQLSVPSPARRARSQSREEQAVLLVRRD
RDGQHSWVPRGRGSGGSGRSTPQTPRARSPAAPRLSRVSSPSELGTT PASIFRTPLQLDPQQEQQLFRRLEEEF
LANARALEAVASVTPTGPAPDPARAPDPPAPDSAYCSSSSSSSSLSVLGGKCGQP GDSGRTANGLPGPRSQALSS
SSDEGSPCPGMGGPLDAPGSPLACTEPSRTWARGRMDTQPDRKPSRIPTPRGPRRPSGPAELGTWHALHSVTPRA
EPDSWM

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FIGURE 5993A

ACCACTTGAAGAGAGGTTCTAATACTAGACAGATGGAGAGTGGCTTGGCTGTTTCCCCCTGCATATTGGGGTTG
AAAACTTAAATGTGTAGTTCAGTCTTCTATGCAGAGTCTCTCCTGCCCTCCCTCCTTCCCTGCAGTCTCACCAC
GCCACCACCTCCCTCGGGGGCCTCCGCGCTGAGCTTCCGGCCTCTACGCCTCGCTTCCGGTCCGCCGCCCTTCC
TTACTTCCGGTTCTCTATGGTGCGCGGGCAAGCTTTGCTCCGCCTCCGGCAGTGGCTTACTCCCGGTGCCAGGTT
CTTGGAGCTGTGAGGAGGAACAACCATGTCTATCAGAATCGAGCAAAAAACGGAAGCCCAAGTGATCCGAAGCGA
TGGAGCCCCAGCTGAAGGAAAGCGGAATCGATCTGACACCGAGCAGGAAGGTAAATACTACAGTGAGGAGGCCGA
GGTGGATCTGCGGGACCTGGCAGAGACTATGAGTTATACAAGTACACCTGCCAGGAGCTACAGAGGCTGATGGC
TGAGATCCAAGACCTGAAGAGCAGGGGTGGCAAGGATGTGGCAATAGAAATAGAAGAACGGAGGATCCAGAGCTG
TGTGCATTTCTGACTCTAAAGAAGCTTAACCGATTAGCCCATCAGGTTGAAGAAAGGAAGAGATCAGACCCA
CGAGGCTAAGCAGAAAGTAGATGCCATCTGTCAGCTCCAGAACCTGTTGTATGAGGTGATGCACCTACAGAA
GGAGATCACCAATGTTTGGAGTTTAAGTCAAAGCATGAAGAAATTGATCTGGTCAGTTTAGAGGAGTTTTATAA
GGAGGCTCCACCAGATATCAGCAAGGCCGAAGTCACCATGGGAGACCCTCACCAGCAAACTGGCACGTCTGGA
CTGGGAGCTGGAGCAGCGGAAAAGGCTGGCAGAGAAGTACCGAGAGTGCCTATCTAACAAGGAGAAGATTCTCAA
GGAGATTGAGGTGAAGAAGGAGTACCTGAGCAGCCTCCAGCCCCGCCTCAACAGCATCATGCAGGCTTCCCTTCC
GGTGCAGGAGTACCTGTTTATGCCATTTCGACCAGGCTCACAAGCAGTATGAGACAGCCAGACACCTGCCGCCTCC
CCTCTATGTCTCTTTGTTTTCAGGCCACTGCGTATGGGCAGGCTGTGATAAGACGTTATCTGTGGCAATCGAAGG
CAGTGTGGATGAAGCCAAGGCTCTGTTCAAACCTCCAGAGGACTCCCAAGATGACGAGAGTGACTCAGATGCCGA
GGAGGAGCAGACTACGAAGCGCCGGAGACCCACACTGGGGGTTTCAAGTGGACGACAAACGCAAGGAGATGCTGAA
GAGGCACCCACTGTCTGTCTGTCGACCTGAAGTGCAAAGATGACAGTGTGCTTACCTGACTTTCTACTACCT
CATGAACCTCAACATCATGACAGTAAAAGCCAAAGTGACAACGCCATGGAGCTGATCAGCCCCATCAGTGCAGG
TGACTTGCTGTCTCTGACTCAGTCTGAGTTGCTTGTATCCTGGGGATCATGGAAGAAAACCTCCGAATCCAGC
CAATCAGTATCAGTTTGATAAAGTTGGCATCTGACTTTGAGCGACTATGTACTTGAGCTAGGTACCCCTATTT
GTGGGTGCAGAAAGCTGGGTGGCTCCACTTCCCCAAAGAGCAGCCCCAGCAAAACAGTGATTGCTGACCACTCGCT
GAGCGCCAGCCACATGGAGACCACCATGAACTTCTGAAGACCAGGGTGCAGTCCCGCCTGGCCCTCCACAAACA
GTTTGATCCCTAGAACATGGCATTGTGCCAGTTACCAAGTATGAGGATGAGTGCAGTTCACCAAGAGCTTGTTGCTG
TCGCCTGGTGAAATGGGTGACAGTTGCCCATGAGGATTACATGGAGTGCAGTTCACCAAGAGCTTGTTGCTG
GGGACTGGCTGGGGACCAATCTCTACTACATGGCGCTCATCGAAAGGGGCACAGCCAAAGCTGAGGCCGCTGT
GGTGTGTAACCTGGCTACTCCTCCATCCCACTGTTTCCAGCTCTGTTTGAAGTGGAAAGGGGAGAAAACCAA
CAGCAACGATGACAACATTCCGGCCATGGAGGGCGAAGTCAATGTGTGCTACAAGGAGCTGTGTGGCCCTTGCC
CAGCCACCAGCTGTTGACCAACCAGCTGCAGCGCTGTGTGTGCTGCTGGATGTTTACCTGGAGACCGAGAGCCA
TGACGACAGTGTGGAGGGGGCCCAAGGAATTTCCCCAGGAGAAGATGTGTCTGCGGCTCTTCAGGGGTCTTAGCAG
GATGAAGCCATTTAAATACAACCATCTCAGGGATTCTTCAGCCATCGCTGATCTCCCGCGCAGACCGTTGTTTC
CCCCAAGGCCTCACCTGAGCACTGGGCTTCTGCTTTCTGCTCTGGCCCATATGTGACTCTTGATATTCTCCAAA
GACACCAGCCAATTAAGAGCGTCACCTGACCAGTGGCCTTTGTCTGTGGTTCTGGCAAGGTGGCTTTGCAGTC
TGGAAGGGCAGGTGGGAGCTGTGACACAGTGTGAAAAAGCATTGTAGAGAGACTTTTTCTCAGCAGCCAATAAA
AGCAGAGTGGAAAAAGATTCCAATCTGCAGAGAGATGCTCACCTCTGTCTACGCACACCCTATTTGTGCTTTG
CGGGGTGAGGTCTCATGATCTTGTATTTATATCCCAAGTTCCTGCTGTTAAGAGGTGGTAGGAGAAGCCAAAG
GCAGCAGAGCACAAAAGCAAACTCTTCCCTCCCCACCCGCTCTTCCCATAGTCTGTGAGGGTTGCCGATGG
ACAAATTGTCTCTGATCGTTGGATGTTATAAATGTCTGACAGTGCAGTGCAAAACAGAAGACAACTCAGTTGATC
CTTGAACAACTCAGGGGTTAGGGGCACCAACACCCCTGCCCTGCACAGTTGAAAAATCCGTGTATAACTTTTGA
CTCCCTAAAACTTAATAATAGCCTGCTGTTGACCAGTAGTATGCTATTAGTAGTTACTTACTGCTAACATAGT
CAGTACATATTTTCAGTATATATTTTGTATCTTATACACTGTATTCTTACAATACAGTAACTAGAGAAAAGAAA
ATGTTATAAGGAAAGTCACAAGGGGGCCTGAGTGCAGTGGCTCACGTCTGTAATCCAGCACTTTGGGAGGCCAA
GGCGGGTGGATCACTTGAGGTGAGGAGTTTGAGACCAGCCTGGCCGACATGGTGAAACCCTGTCTCTACTAAAAA
CATGGAATTTAGCCAAGCGTGGTGGCGCATGCCTGTAGTCCCAGTTACTCAGGAGGCTGAGGCAGAATTACTTGA
ACCCATGAGGCAGAGGTTGCAGTAAGCCAAGATCACGCTCCTGCGCTCCGGCTTGGGCGAGAGTGAGACTCCGTC
TCAAAAATAAATAAATAAGAAAGCCATAAGGAAGAAAATATATATCTACTATTAAGTAGAAGTGATCACCATAA
AGGTCTTCACATACTGTCTCAGGGTTGAATAGTCTAAGGAAGAGGAGGGGTTGGTCTTGGTGTCTCAGGGATGGC

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FIGURE 5993B

AGAGGCAGAAAAAGTGGGGGAGGTGGAGGGGGAGGCAGGCACCACTGTTATTTTTATTGAACAAAATCTGTGCAG
GGACTCATGACTGTAATCCTAGTACTTTGGAAAGCTAAGGCGGGAGGATCCCTTGAGGCCAGGAGTTCAGGTCCA
GCCTGGGCAACGTAGTGAGAGACCCTGTATCTACAAAAAATTTAAAAATCAGCCAGGTGTGGTGGTATGCACCAA
TAGTCCCAGTTACTCAGAAGGCTGAGGTGGGCGGATGACTGGAGTCCAGGAGTTCAAGGTAGCAGTGAGCTATTC
ATCGTGCCTGTACTGTACTCCAGCCTGGGAAACAATGCGAGTCCCTATCTCTAAAAAATTTTAAAAAAGAAATC
TGCAATATAATAGACCCACAGAGTCCAAACTATTGTTTCAGAGATCAACTGTACTTCACAGAGAGTAATTCTAAGTC
TTACAGGATTTTCATGGAGATGGCGAGAGTGGTGTGGAGAATCAATCACATACAGAGATACAGGACAGTGAGACC
AGGTAACATTTGAGGAGAAATATTTTTTTTTTATTGAGACAGGGTCTTGCTCTGTTGTCCAGGCTGGAGTGCAGTG
GCACGAACACAGCTCACTGCCGCCTCAACCTCTCCTGGGTTCAAGTGATCCTCCTGCCTCAGCCTCCCAAGTAGC
TGGGACCACAGGTGTGTGCCACCATTCTGGCTAATTTTTAAATTTTTTGTAGAGGCGGGATCCCACTATTTTTTC
CCAGGCTGGTCTCAAACCTCCTGGGCTCAAATGATCCTCCACCTCGGCCTCCCAAAGTGCTAGGATTATAGGCAT
GAGCCACCACACCCGGCCTGAGTAGAGTCTTTAAGGTAATGACAAAAGTGCCCTCAAATATAATTATTTGATTAA
GAGAAGTCTTGGAAGATAGGTAACAACCTTTAAAAATGTTCAAAAATTACATCCTTTGTAACTCCTGCAAGT
CAAAGTAAAGGATGGCATAGACTATTCTTGGACAGTTTTGTCAAAAAGTGATCTTGACCCCAACATCAGTACTC
CATTCTTCATTTTAAAAAATAAGATGGGCTGGGCACAGTGGCTTACGCCTTTAATATCAGTACTTTGGGAGGCTG
GTGGGCGGATCACCTGAGATCAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAAT
ACAAAAATTAGCTGGGCATGGTGGTGCGCGCTGTAATCCCAGCCACTCGGGAGGCTGAGGCAGGAGAATTGCTT
GAATCCCCGAGGCGGAGGTTGCACTGAGCCGAGATGGTGCCACTGCACCATCTGGACAACAGAGCAAGACTCCGT
CTTGG

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FIGURE 5994

ACGGCAGCCGTCAGGGACCGTCCCCCAACTCCCCTTTCCGCTCAGGCAGGGTCTCGCGGCCCATGCTGGCCGCT
GGGGACCCGCGCAGCCCAGACCGTTCCCGGGCCGGCCAGCCGGCACCATGGTGGCCCTGAGGCCTGTGCAGCAAC
TCCAGGGGGGCTAAAGGGCTCAGAGTGCAGGCCGTGGGGCGCGAGGGTCCCGGGCCTGAGCCCCGCGCC**ATGGCC**
GGGGCCATCGCTTCCCGCATGAGCTTCAGCTCTCTCAAGAGGAAGCAACCCAAGACGTTACCCGTGAGGATCGTC
ACCATGGACGCCGAGATGGAGTTCATTGCGAGATGAAGTGGAAAGGGAAGGACCTCTTTGATTTGGTGTGCCGG
ACTCTGGGGCTCCGAGAAACCTGGTTCTTTGGACTGCAGTACACAATCAAGGACACAGTGGCCTGGCTCAAAATG
GACAAGAAGGTACTGGATCATGATGTTTCAAAGGAAGAACCAGTCACCTTTCACTTCTTGGCCAAATTTTATCCT
GAGAATGCTGAAGAGGAGCTGGTTCAGGAGATCACACAACATTTATTCTTCTTACAGGTAAAGAAGCAGATTTTA
GATGAAAAGATCTACTGCCCTCCTGAGGCTTCTGTGCTCCTGGCTTCTTACGCCGTCCAGGCCAAGTATGGTGAC
TACGACCCCACTGTTTACAAGCGGGGATTTTGGCCCAAGAGGAATTGCTTCCAAAAGGGTAATAAATCTGTAT
CAGATGACTCCGGAAATGTGGGAGGAGAGAATTACTGCTTGGTACGCAGAGCACCAGGGCCGAGCCAGGGATGAA
GCTGAAATGGAATATCTGAAGATAGCTCAGGACCTGGAGATGTACGGTGTGAAGTACTTTGCAATCCGGAATAAA
AAGGGCACAGAGCTGCTGCTTGGAGTGGATGCCCTGGGGCTTCACATTTATGACCCTGAGAACAGACTGACCCCC
AAGATCTCCTTCCCGTGAATGAAATCCGAAACATCTCGTACAGTGACAAGGAGTTTACTATTAAACCACTGGAT
AAGAAAATTGATGTCTTCAAGTTTAACTCCTCAAAGCTTCGTGTTAATAAGCTGATTCTCCAGCTATGTATCGGG
AACCATGATCTATTTATGAGGAGAAGGAAAGCCGATTCTTTGGAAGTTCAGCAGATGAAAGCCCAGGCCAGGGAG
GAGAAGGCTAGAAAGCAGATGGAGCGGCAGCGCCTCGCTCGAGAGAAGCAGATGAGGGAGGAGGCTGAACGCACG
AGGGATGAGTTGGAGAGGAGGCTGCTGCAGATGAAAGAAGAAGCAACAATGGCCAACGAAGCACTGATGCGGTCT
GAGGAGACAGCTGACCTGTTGGCTGAAAAGGCCCAGATCACCAGGAGGAGGCAAACTTCTGGCCCAAGAGGCC
GCAGAGGCTGAGCAGGAAATGCAGCGCATCAAGGCCACAGCGATTTCGCACGGAGGAGGAGAAGCGCCTGATGGAG
CAGAAGGTGCTGGAAGCCGAGGTGCTGGCACTGAAGATGGCTGAGGAGTCAGAGAGGAGGGCCAAAGAGGCAGAT
CAGCTGAAGCAGGACCTGCAGGAAGCACGCGAGGCGGAGCGAAGAGCCAAAGCAGAAGCTCCTGGAGATTGCCACC
AAGCCACGTACCCGCCCATGAACCCAAATTCCAGCACCGTTGCCTCCTGACATACCAAGCTTCAACCTCATTGGT
GACAGCCTGTCTTTTCGACTTCAAAGATACTGACATGAAGCGGCTTTCCATGGAGATAGAGAAAGAAAAAGTGGA
TACATGGAAAAGAGCAAGCATCTGCAGGAGCAGCTCAATGAAGTCAAGACAGAAATCGAGGCCTTGAACTGAAA
GAGAGGGAGACAGCTCTGGATATTCTGCACAATGAGAAGTCCGACAGGGGTGGCAGCAGCAAGCACAATACCATT
AAAAAGCTCACCTTGAGAGCGCCAAGTCCCGAGTGGCCTTCTTTGAAGAGCTCT**TAG**CAGGTGACCCAGCCACCC
CAGGACCTGCCACTTCTCCTGCTACCGGGACCGCGGGATGGACCAGATATCAAGAGAGCCATCCATAGGGAGCTG
GCTGGGGGTTTCCGTGGGAGCTCCAGAAGTTTCCCCAGCTGAGTGAAGAGCCAGCCCCCTCTTATGTGCAATTGC
CTTGAAGTACGACCCTGTAGAGATTTCTCTCATGGCGTTCTAGTTCTCTGACCTGAGTCTTTGTTTTAAGAAGTA
TTTGTCT

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FIGURE 5995

MAGAIASRMSFSSLKRKQPKTF TVRIVTMDAEMEFNCEMKWKGDLDLVCRTLGLRETWFFGLQYTIKDTVAVL
KMDKKVLDHDSKEEPVTFHF LAKFY PENAEELVQEITQHLFF LQVKKQILDEKIYCPPEASVLLASYAVQAKY
GDYDPSVHKRGFLAQEELLPKRVINLYQMTPEMWEERITAWYAEHRGRARDEAEMEYLKIAQDLEMYGVNYFAIR
NKKGTELLLGVDALGLHIYDPENRLTPKISFPWNEIRNISYSDKEFTIKPLDKKIDVFKFNSSKLRVKNLILQLC
IGNHDLFMRRRKADSLEVQQMKAQAREEKARKQMERQRLAREKQMREEAERTRDELERLLQMKEEATMANEALM
RSEETADLLAEKAQITEEEAKLLAQKAAEAEQEMQRIKATAIRTEEEKRLMEQKVLEAEVLALKMAEESERRAKE
ADQLKQDLQEAREAEERRAKQKLEIATKPTYPPMNPAPLPPDIPSFNLIGDSLSDFKD TDMKRLSMEIEKEK
VEYMEKSKHLQEQLNELKTEIEALKKERETALDILHNENSDRGSSKHNTIKKLTLSAKSRVAFFEEL

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GGACACGAGGCCGGAAGTACGGCGCTCAGGGAGCTGTCAACCGTGGTCGGCGGCGGCGGCGGCGGCGGACAG
AGCCGGTGGTGGAGCCGCCGAGGAGGGTACGCGAGCACAATGCCAGCTCTGCCCTGGACCAACTCCAGATCACC
CACAAGGACCCGAAGACAGGAAAGCTGAGGACTTCACCAGCGCTGCACCCCGAGCAGAAGGCAGACCGGTATTTT
GTGTTATACAAACGCCCCCTAAAGACAACATTCCCGCCCTAGTGGAGGAGTACCTGGAACGCGCCACCTTCGTA
GCCAATGACCTCGACTGGCTCCTGGCCTTGCCCTCACGATAAAATTCTGGTGCCAGGTGATCTTTGACGAGACTCTA
CAGAAGTGCCCTGGACTCCTACCTGCGCTATGTCCCCCGCAAATTTCGACGAGGGGGTGGCCTCAGCCCCTGAGGTT
GTTGACATGCAGAAGCGCCTCCATCGAAGTGTTTTTCTCACCTTCCTCCGCATGTCCACTCACAAGGAATCCAA
GATCACATTATTTCCCTTCTGCGTTTTGGAGAAATCCTCTACAATAACTTCCTCTTTGACATTCCAAAGATCCTG
GACCTCTGCGTGCTCTTTGGAAAAGGCAACTCACCCTGCTCCAGAAGATGATAGGAAACATCTTTACACAGCAG
CCAAGTTACTACAGTGACCTGGATGAAACCCTGCCTACCATCCTTCAGGTCTTCAGCAATATCCTCCAGCACTGT
GGTTTGCAAGGGGACGGGGCCAATACCACACCCCGAGAAGCTTGAGGAGAGGGGGCCGATTGACCCCCAGTGACATG
CCTCTCCTGGAATTAAGGACATTGTTCTCTACCTTTGTGATACCTGCACCACACTTTGGGCCCTTTCTGGATATC
TTCCCTTTGGCTTGCCAGACCTTCCAGAAGCACGACTTTTGTACAGACTAGCTTCCTTCTACGAAGCAGCAATT
CCCGAATGGAGTCTGCAATTAAGAAGAGGAGGCTTGAAGATAGCAAGCTTCTTGGTGACCTGTGGCAGAGGCTC
TCCCATTCCAGGAAGAAGCTAATGGAGATTTTCCACATCATCCTGAACCAGATCTGCCTCCTTCCCATCCTAGAA
AGCAGCTGTGACAACATTCAGGGCTTCATCGAAGAGTTCCTTCAGATCTTCAGCTCCTTGCTGCAGGAGAAGAGG
TTCTCCGGGACTATGATGCATCTTCCCCGTGGCCGAAGACATCAGCTTGCTGCAGCAGGCGCTATCAGTCTTG
GACGAGACGCGGACTGCCTACATCCTCCAGGCAGTCGAGAGTGATGGGAAGGGGTGGACAGACGGAAAGCCACA
GATGCTAAAGACCCATCGGTGATTGAGGAGCCTAATGGGGAGCCTAACGGGGTCACGGTGACAGCAGAGGCAGTC
AGTCAAGCATCATCACATCCGGAAGCTCGGAGGAAGAGGAGTGATGGGAGCAGCCGCGGCTGTGGGCCCTGCC
ATGTGTGGGGTGGAACTGGACTCTCTCATCTCCCAAGTGAAGGACCTGCTGCCAGACCTTGGTGAGGGCTTCATC
CTGGCCTGCCTGGAGTACTACCACTACGACCCAGAGCAGGTGATCAACAATATCCTGGAGGAGCGGCTGGCCCC
ACCCTCAGCCAGCTGGACCGCAACCCTAGACAGAGAAATGAAACCAGACCCCTACACCCCTGCTGACGCTCTGCCAC
AACGCTCTTCAGAATGACGAGTTTGATGTGTTTCAGCAGGGACTCAGTAGACCTGAGCCGGGTGCACAAGGGCAAG
AGCACCAGGAAGGAGGAAAACACGCGGAGTTTGCTGAACGACAAGCGTGAGTGGCGGCACAGCGGCAGCGCTAC
GAGCAGTACAGCGTGGTGGTGGAGGAGGTGCCACTGCAGCCAGGCGAGAGCCTGCCCTACCACAGTGTCTACTA
GAGGATGAGTACGATGACACATACGATGGCAACCAGGTGGGCGCCAATGATGCAGACTCTGATGACGAGCTCATC
AGCCGCAGGCCATTACCATCCCTCAGGTGCTGAGAACCAAAGTGCCTAGAGAAGGGCAGGAGGAGGATGACGAC
GATGAGGAAGACGATGCTGACGAGGAGGCTCCCAAGCCCGACCATTTTGTTCAGGACCTGAGTGCTGAGAGAG
AAGGCAGAAGCCAGGCGCATGGCCTTTCTCGCCAAGAAAGGGTACCGGCATGACAGCTCAACAGCAGTGGCCGGC
AGCCCCCGAGGCCATGGGCAGAGCCGCGAGACAACCCAGGAACGCAGGAAGAAGGAAGCCAACAAGGCGACAAGA
GCCAACCAACACCGGAGAACCATGGCCGACCGCAAGAGGAGCAAAGGCATGATCCCATCTCTGAGACCTGGTGCAG
GGCCAGTGGGGAGGCAGCGGCACCAGACTCACCAGGCCGTGCTCCCATCGCCTGGGGCTTCCTACTAGGGGCC
CAAGTTCAACTCAACCCCTCAACAGCCTCAGCTTTGCAGCCCCTGAGAAGGCCGCCCTCTCATCTACCAGCCAGCC
ATGAGCGCCTTCTGCGAGAACACACAGTGCCTTATGCCACAGCCGAAGAATCCGTGGGGCCGGCAAGCAGGCACC
TTCCCCCAGCTGCGCTAGCGGGAAGAGATGGGGATGGAGTCCCAAGGCAAGCGCCCAAACCTCGGGCCACAAG
ACACCCTTCCCTTTACCCTGGACAGCAGGAAACCTGTATATTCAAAAACACAAAAAGTCCTGCTAATAAAATT
TTTGACCCCTTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5997

MPALPLDQLQITHKDPKTGKLRTSPALHPEQKADRYFVLYKPPPKDNIPALVEEYLERATFVANDLDWLLALPHD
KFWCQVIFDETLQKCLDSYLRVPRKFDEGVASAPEVDMQKRLHRSVFLTF LRMSTHKESKDHFI SP SAFGEIL
YNNFLFDIPKILDLCVLF GKGN SPLLQKMIGNIFTQQPSYSDLD ETLPTILQVFSN ILQHCGLOGDGANTTPQK
LEERGRLTPSDMPLLELKDIVLYLCDTCTTLWAFLDIFPLACQTFQKHDFCYRLASFYEAAIPEMESAIAKKRLE
DSKLLGDLWQRLSHSRKKLMEIFHIILNQICLLPILESSCDNIQGFIEEFLQIFSSLLQEKRF LRDYDALFPVAE
DISLLQQASSVLDETRTAYILQAVESAWEGVDRRKATDAKDP SVIEEPNGEPNGVTVTAEAVSQASSHPENSEEE
ECMGAAA AVGPAMCGVELDSLISQVKDLLPD LGEGFILACLEYHYDPEQVINNILEERLAP TLSQLDRNLDREM
KPDPTPLLTSRHN VFQNDEFDVF SRDSVDLSRVHKGKSTRKEENTRSLLNDKRAVAAQRQRYEQYSVVVEEVPLQ
PGESLPYHSVYYE DEYDDTYDGNQVGANDADSDELISRPF TIPQVLRTKVPREGQEEDDDDEEDDADEEAPKP
DHFVQDPAVLREKAEARRMAFLAKKGYRHDSSTAVAGSPRGHGQSRETTQERRKKEANKATRANHNRRTMADRKR
SKGMIPS

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FIGURE 5998

ATGGCTTGGGGAGTCAGTGCCAAATGGAGTAACGAGGGCATCACAAAGTGTGGGTGACCCACAGTGGGAATGCCAG
AGTTGGAGCCTGAGCAGGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTTCAGTATAATAACTATGGGAAAG
ACACTCATCGCCAGGACTCAAGGAATCAAAATTGCATCTGATGGCCTCAAGGGTCATGTGTTTGAAGTCTGCCAA
ATCCAGAAGAAGATGATGGAAATCATGACCCAAGAGGTGCAGACAAATGACTTGAAAGAAGTGGTCAATAAATTG
ATTCCAGACAGCACTGGAAAAGACATAGAAAAGGCTTGCCTATCTGTTTATCCTCTCCATGGTGTCTTCATTAGG
AAAGTAAAAATAAAGAAGCCCAAGTTTGAATTGGGAAAACATCATGTAG

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FIGURE 5999

GGCACGAGGCCGCAACTCGCTCGGCCGCCCATCTTGCGAGCTCGTCGTA CTGACCGAGCGGGGAGGCTGTCTT
GAGGCGGCACCGCTCACCACACCGAGGCGGACTGGCAGCCCTGAGCGTCGCAGTCATGCCGGCCGGACCCGTCG
AGGCGGTGCCCCCGCCGCCCGCTGCCACGGAGCCCAAACAGCCACAGAAGAAGCATCTTCAAAGGAGG
ATTCTGCACCTTCTAAGCCAGTTGTGGGGATTATTTACCCCTCCTCCAGAGGTCAGAAATATTGTGACAAGACTG
CCAGCTTTGTGGCCAGAAACGGGCCTGAATTTGAAGCTAGGA⁷CCGACAGAACGAGATCAACAACCCCAAGTTCA
ACTTTCTGAACCCCAATGACCCTTACCATGCCTACTACCGCCACAAGGTCAGCGAGTTCAAGGAAGGGAAGGCTC
AGGAGCCGTCCGCCGCCATCCCCAAGGTCATGCAGCAGCAGCAGCAGACCACCCAGCAGCAGCTGCCCCAGAAGG
TCCAAGCCCAAGTAATCCAAGAGACCATCGTGCCCAAAGAGCCTCCTCCTGAGTTTGAGTTTCATTGCTGATCCTC
CCTCTATCTCAGCCTTCGACTTGGATGTGGTGAAGCTGACGGCTCAGTTTGTGGCCAGGAATGGGCGCCAGTTTC
TGACCCAGCTGATGCAGAAAGAGCAGCGCAACTACCAGTTTGACTTTCTCCGCCACAGCACAGCCTCTTCAACT
ACTTCACGAAGCTAGTGGAACAGTACACCAAGATCTTGATTCCACCCAAAGGTTTATTTTCAAAGCTCAAGAAAG
AGGCTGAAAACCCCGAGAAGTTTGGATCAGGTGTGTTACCGAGTGGAATGGGCCAAATTCCAGGAACGTGAGA
GGAAGAAGGAAGAAGAGGAGAAGGAGAAGGAGCGGGTGGCCTATGCTCAGATCGACTGGCATGATTTTGTGGTGG
TGGAACAGTGGA⁷CTTCCAACCAATGAGCAAGGGAAC⁷TCCCTCCCCCACCACGCCAGAGGAGCTGGGGGCC
GAATCCTCATTCAGGAGCGCTATGAAAAGTTTGGGGAGAGTGAGGAAGTTGAGATGGAGGTGAGTCTGATGAGG
AGGATGACAAACAGGAGAAGGCGGAGGAGCCTCCTTCCAGCTGGACCAGGACACCCAAGTACAAGATATGGATG
AGGGTTCAGATGATGAAGAAGAAGGGCAGAAAGTGCCCCACCCCCAGAGACACCCATGCCTCCACCTCTGCCCC
CAACTCCAGACCAAGTCATTGTCCGCAAGGATTATGATCCCAAAGCCTCCAAGCCCTTGCCCTCCAGCCCCTGCTC
CAGATGAGTATCTTGTGTCCCCATTACTGGGGAGAAGATCCCCGCCAGCAAAATGCAGGAACACATGCGCATTG
GACTTCTTGACCCTCGCTGGCTGGAGCAGCGGATCGCTCCATCCGTGAGAAGCAGAGCGATGATGAGGTGTACG
CACCAGTCTGGATATTGAGAGCAGCTTGAAGCAGTTGGCTGAGCGGCGTACTGACATCTTCGGTGTAGAGGAAA
CAGCCATTGGTAAGAAGATCGGTGAGGAGGAGATCCAGAAGCCAGAGGAAAAGGTGACCTGGGATGGCCACTCAG
GCAGCATGGCCCCGACCCAGCAGGCTGCCAGGCCAACATCACCTCCAGGAGCAGATTGAGGCCATTACAAGG
CCAAAGGCCTGGTGCCAGAGGATGACACTAAAGAGAAGATTGGCCCCAGCAAGCCCAATGAAATCCCTCAACAGC
CACCGCCACCATCTTCAGCCACCAACATCCCCAGCTCGGCTCCACCCATCACTTCAGTGCCCCGACCCACCA
TGCCACCTCCAGTTCGTACTACAGTTGTCTCCGCA⁷TACCCGTCA⁷TGCCCCGGCCCCCAATGGCATCTGTGGTCC
GGCTGCCCCCAGGCTCAGTGATCGCCCCCATGCGCCCATCATCCACGCGCCAGAAATCAACGTGGTGGCCATGC
CTCCCTCGGCCCTCCTATTATGGCCCCCGCCACCCCATGATTGTGCCAACAGCCTTTGTGCCTGCTCCAC
CTGTGGCACCTGTCCCAGCTCCAGCCCCAATGCCCCCTGTGCATCCCCACCTCCCATGGAAGATGAGCCACCT
CCAAAAA⁷ACTGAAGACAGAGGACAGCCTCATGCCAGAGGAGGAGTTCTCTGCGCAGAAACAAGGGTCCAGTGTCCA
TCAAAGTCCAGGTGCCCAACATGCAGGATAAGACGGAATGGAAACTGAATGGGCAGGTGCTGGTCTTCACCTCC
CACTCACGGACCAGGTCTCTGTCA⁷TAAGGTGAAGATTCA⁷TGAAGCCACAGGCATGCCTGCAGGGAACAGAAGC
TACAGTATGAGGGTATCTTCATCAAAGATTCCA⁷ACTCACTGGCTTACTACAACATGGCCAATGGCGCAGTCATCC
ACCTGGCCCTCAAGGAGAGAGGCGGGAGGAAGAAGTACACAAGAGGAACCTGCTGTCAAGTCCCTGCCATTTTGC
CTCTCCTGTCTCCACCCCTGCCCCAGACCCAGGAGCCCCCTGAGGCTTTGCCTTGCTGCATATTTGTTTCG
CTCTTACTCAGTTTGGGAATTCAAATTGTCTGCAGAGGTTTATTCCCCTGACCCTTTCCCCACATTGGTAAGAG
TAGCTGGGTTTTCTAAGCCACTCTCTGGAATCTCTTTGTGTTAGGGTCTCGATTTGAGGACATTCTTTCTTCAG
CAGCCATTAGCAACTGAGAGCCAGGGATGTCTACAGGATAGTTTCATAGTGACAGGTGGCACTTGGCTAATA
GAATATGGCTGATATTGTCA⁷TAAATCATTTTGTACCTTGACATGGGTTGTCTAATAAAACTCGGACCCTTCTGT
GAAAAAAAAAAAAAAAAAAAA

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FIGURE 6000

MPAGFVQAVPPPPVPTEPKQPTTEEASSKEDSAPSKPVVGGIYPPPEVRNIVDKTASFVARNGPEFEARIRQNE
INNPKNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTOQQLPQKVQAQVIQETIVPKEPPPEF
EFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQIMQKEQRNYQFDFLRPQHSLFNFTKLVEQYTKILIPPKGL
FSKLLKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNQGNFPPTT
PEELGARILIQERYEKFGESEEVEMEVESEDEDDKQEKAEPPSQLDQDTQVQDMDEGSDDDEEGQKVPPPPETP
MPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQ
SDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEIQQPEEKVTWDGHSGSMARTQQAQANITLQEQ
IEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRP
PMASVVRLLPPGSVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPP
MEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGM
PAGKQKLQYEGIFIKDSNSLAYNMANGAVIHLALKERGGRKK

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FIGURE 6001

ATGAGGTGGGCGAGGCTTTCCGCTCTCTTGTGCCAGCGGCGGGTGGTGTGGCTGAGCTATGGCGTGGCCAGCTCC
TACGTGCTGGCGGATGCCATTGACAAAGGCAAGAAGGCTGGAGAGGTGCCCAGCCCTGAAGCAGGCCGCGAGCGCC
AGGGTGACTGTGGCTGTGGTGGACACCTTTGTATGGCAGGCTCTAGCCTCTGTGGCCATTCCGGGCTTCACCATC
AACCGCGTGTGTGCTGCCTCTCTCTATGTCCTGGGCACTGCCACCCGCTGGCCCCCTGGCTGTCCGCAAGTGGACC
ACCACCGCGCTTGGGCTGTTGACCATCCCCATCATTATCCACCCCATTGACAGGTCGGTGGATTTCTCTCTGGAC
TCCAGCCTGCGCAAGTCTACCCAACAGTGGGGAAGCCCAGCTCCTCCTGATCATACTCTGGTACCTGGCCTGTGC
ATCGGCCTCCTGCTTCATGTCAACCTCCTACTCCTGCCAGGGAATGTGGACACCTGGCTCCCTGGTGTCCAAAGA
CCCTGGCACCTGGGTGGGTTTGAGCTGGACAGAAGCTTAGAGACAAAGGCTTCAAGAAGCAGTGGCTGCAGGGAG
TCACAGAAGGGCAGGACCTGA

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FIGURE 6002

MRWARLSALLCQRRVVWLSYGVASSYVLADAIDKGGKAGEVPSPEAGRSARVTAVVDTFVWQALASVAIPGFTI
NRVCAASLYVLGTATRWPLAVRKWTTTALGLLTIPIIIHPIDRSVDFLLDSSLRKSTQQWGSPAPPDHTLVPGLC
IGLLLHVNLLLLPGNVDTWLPQVQRPWHLGGFELDRSLETKASRSSGCRESQKGRT

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FIGURE 6003

CACGAGGAAGTGGAGCTGCCTGTACGCGCGGCCCTAGTCGGCTCCTCAACGTGGAGCGATGGGAGGCCTTGAGAA
GAAGAAGTATGAACGAGGCTCGGCCACCAACTACATCACCCGGAACAAAGCCCGGAAGAAGCTCCAGCTGAGCTT
GGCTGACTTTAGGCGGCTGTGCATTCTGAAGGGCATTATCCCCATGAACCCAAACACAAGAAGAAGGTTAACAA
GGGTTCTACAGCAGCCCGAACGTTTTACCTTATCAAAGACATCAGGTTTCTCCTCCACGAACCCATTGTCAACAA
GTTCCGTGAATACAAGGTGTTTCGTCCGGAAGCTCCGGAAGGCTTATGGGAAGAGCGAGTGGAACACTGTAGAGCG
TTTAAAGGACAATAAGCCCAACTACAAACTCGACCACATCATCAAGGAACGGTATCCCACGTTTCATCGATGCCCT
GCGGGACCTGGACGATGCCCTCTCCATGTGCTTCTGTTTTCCACCTTCCCGCGGACTGGCAAGTGCCACGTGCA
GACCATTAGCTGTGCCGCCGGCTCACTGTGGAGTTCATGCACTACATTATCGCTGCCCGTGCCCTGCGCAAGGT
CTTCTGTCCATCAAAGGCATTTACTACCAGGCCGAGGTACTGGGGCAGCCCATCGTGTGGATCACTCCCTATGC
CTTCTCCCATGACCACCCGACAGACGTGGACTACAGGGTCATGGCCACCTTCACCGAGTTCTACACCACGTGCT
GGGCTTTGTCAACTTCCGCCCTTACCAGTTGCTCAACCTCCACTATCCCCGAAGCTCGAGGGTCAGGCCCAAGC
AGAGGCAAAGGCCGGTGAGGGCACCTACGCGTTGGAATCCGAGAGTTGTATGGAGAACTGGCAGCCCTCAGTGC
CAGCCTGGCCCGCGTGGTGGTGCTGCCACAGAGGAGGAGGCCGAGGTGGATGAGTTTCCACCGATGGGGAGAT
GTCAGCGCAGGAGGAAGACCGCAGGAAGGAGCTGGAGGCGCAGGAGAAGCACAAAGAAGCTTTTGGGGCCTGAA
GTTCTTCTGAACCGAGAGGTGCCCCGTGAGGCCCTGGCCTTCATCATCAGGAGTTTGGTGGGGAGTGTCTCTG
GGACAAATCTTTGTGCATTGGGGCCACCTATGACGTCACAGACTCCCGCATCACCCATCAGATTGTGACCGGCC
TGGGCAGCAGACCTCAGTCATTGGCAGGTGCTACGTGCAGCCCCAGTGGGTGTTTGACTCAGTGAACGCCAGGCT
CCTTCTCCCCGTGGCAGAGTACTTCTCTGGGGTGACGTGCCCCACACCTTTCACCTTTTGTGACCGAGAAGGA
AGGAGATTACGTTCCACCTGAGAAGCTGAAGCTGCTGGCTCTGCAGCGGGGAGAGGACCAGGAAACCTGAATGA
GTCAGAAGAGGAGGAGGAAGAGGACGACAACAACGAAGGTGATGGTGATGAAGAGGGAGAAAATGAGGAGGAGGA
GGAAGATGCAGAGGCTGTTTCAGAAAAGGAGGAAGAGGCCCGGCTGGCAGCCCTGGAAGAGCAGAGGATGGAGGG
GAAGAAGCCCAGGGTGATGGCAGGCACCTTGAAGCTGGAGGATAAGCAGCGGCTGGCCAGGAGGAGAGAGTGA
GGCCAAGCGCCTGGCCATTATGATGATGAAGAAGCGGGAGAAGTACCTGTACCAGAAGATCATGTTTGGCAAGAG
GCGAAAAATCCGAGAGGCCAACAAAGCTGGCGGAGAAGCGGAAAGCCACGATGAGGCGGTGAGGTCTGAGAAGAA
GGCCAAGAAGGCAAGGCCGGAGTGAGTGCTGCGGCCCTCACAGGGCTGAGGCCAGCCCCTAGCAGCTGGATGT
GGCAGAGGCAGGCCAGAGGACCTAAGTGTGATGGACCAGAGTCACTTCTCCTCCTCTTTCTCCAGCCAGCCCTG
ACCCCTCATGCTCTCTGGCTGGGCCAGTGGGCAGCCCTCGCTTCCCTTGGATGGAGCTGCCCTGCTGGTGCCTGG
TCAGAGAAGAGGCCTCTGTGCCAGCCTGATTCTCTGCTCCCAGGAGCCAGTGACATGAGGTGCAGAGGCCACC
CAGCCCCCTACCTACTGCCCCATTTCATCCTGGCTTTCCACAGCCCCCTCCACACAGTTGGACCCGTGATTCTC
AGGGTGCTGTGATGGGGTGAGGGTAGGGGAGCATTGTATTAAATGACTGGACTTTTGAAAAAAAAAAAAA
AAAAAA

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FIGURE 6004

MGGLEKKKYERGSATNYITRNKARKKLQLSLADFRRLCILKGIYPHEPKHKKVKNKGSTAARTFYLIKDIRFLLH
EPIVNKFREYKVFVRKLRKAYGKSEWNTVERLKDKNPNYKLDHIIKERYPTFIDALRDLDALSMCFLFSTFPRT
GKCHVQTIQLCRRLTVEFMHYIIAARALRKVFLSIKGIYYQAEVLGQPIVWITPYAFSHDHPTDVDYRVMATFTE
FYTTLLGFVNFRLYQLNLHYPPKLEGQAQAEAKAGEGTALDSESCMEKLAALSASLARVVVPATEEEAEVDEF
PTDGEMSAQEEDRRKELEAQEKHKKLFEGLKFFLNREVPREALAFIIRSFGGEVSWDKSLCIGATYDVTD SRITH
QIVDRPGQQT SVIGRCYVQPQWVFDVSVNARLLL PVAEYFSGVQLP PHLSPFVTEKEGDYVPPEK LKLLALQRGED
PGNLNESEEEEEEDDNNEGDGDEEGENEEEEEDAEAGSEKEEEEARLAAL EEQRM EGKKPRVMAGTLKLEDKQRLA
QEEESEAKRLAIMMMKKREKYLYQKIMFGKRRKIREANKLAEK RKAHDEAVRSEKKAKKARPE

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FIGURE 6005A

CGAGACTCAGATTGTCTGAATTGAGCTATCGCAACTTAATGCTAAAAGCTCCTTAAAGCTACAGATTTATGACAT
AGTTCCTTCCAAAATATTACATCATAAATCATTGAGAAGATTAAAAAAAACACTTGAAGAAATTGTAGTTTTAA
ACATCTCTGCATATATTTTGGATAGCTACTAGGTTACTTTAACTGTCTATTAAAGGAGCACAGACTTACTGAAGCTT
TACTGGACAGAATCCTGGGAAATCGATATCATTATAAGGTTATATTTCCCAGTTAGCGGGTGAAGGGCTGGAGAC
CTTATTGCAGTCATGGCTTTCACAAATTACAGCAGTCTGAATCGAGCTCAGCTAACCTTTGAATATCTGCACACA
AATTTCGTAAGTATCCTCTAGGTGCCACTGAGGTAACCGTAACCTCGTTCCTTGATATTATATGGAATCGTTTCC
CCAGAAAATTTTGCTTTTTCACCTTTTGGAGATGTATCCCACTGGAGTGAAATGTGTCACTGGATATCTTGAGCTC
TGTATTGAAGAACTGAGATCAGTGAAATACTTGTGTGCTAATCCAGAAGAATCTGATTTTTGTTTTATTGGATCAAA
ATTTTCTAAATGCAAACCTTTAGTTATTTGAAGTCAATATGTTGAGTTGTTTCATTCAAGTGTTTTATAGGAATCCA
ACAAATACTGCTCTATTGGATCGCCAAATGTTGGACTATTTTAGTATCAACCGTTTTCCCTCTGTAGTGACAACG
TCCTAAACAGTTAGGTTTATAACAAGTGTTFACCTTTCTAAACAAGAAAACAGAAGACATTTAAATGACAACCTTTCA
AGAAGAAAATTTTATTTTTTTCAGAAATTGGCATTATCTTCTCGCAGATTGCTCACATCCAATATTATTTGTAT
ATGCTAAACAGGAAACGGCAACTTGTATATCTCTATTTAGATAGTCTTTCCCCAAAATTTCCACAGAAACATA
CAGTGTTTCATGGTTCTTGAGTTCATGAAGGAGTAATCTAATCACTCCAACATGGTCTGGAATGTTTCAGGTTTAA
TCCATATGCCCACTCTCTTGGAGGCTGTCCAGTAGCGTCAAAAACCTTTAGTGTTTTAATACATTACCTGTTACTT
TTGAGATGAAGTTCACCTTTCTTGGATCACATGCAAAGGATGTTTAGGTCTGTGAAGAAAAGAATTTCTAGGCCG
GGTGCTGTGGCTCACGCCGTGAATCCCAGCACTTTGGGAGGCCGAGAACCCTCACGAATTTCTGTTTGGTGCTC
TTGCTGAAGTGGTTGATAATGCAAGAGATGCTGATGCCACCAGAATAGATATTTATGCAGAAAGACGAGAGGACC
TTCGAGGAGGATTTATGCTTTTGGATGATGGAGCAGGAATGGATCCAAGTGATGCTGCCAGTGATGATCC
AGTTTGGGAAGTCGGCCAAGCGAACACCTGAGTCTACTCAGATTGGGCAGTACGGGAATGGGTTAAAATCGGGCT
CAATGCGCATTGGGAAGGATTTATCCTGTTTACCAAGAAGGAAGACACCATGACGTGCCTCTTCTGTCTCGCA
CGTTTCATGAGGAAGAAGGCATTGATGAAGTGATAGTCCCCTGCCCACCTGGAATGCTCGGACCCGGGAACCTG
TCACAGACAATGTAGAGAAATTTGCCATTGAGACAGAACTCATCTATAAGTACTCTCCATTCCGCACTGAGGAGG
AAGTGATGACCCAGTTTATGAAGATTCCTGGGGACAGCGGAACATTGGTGATCATCTTCAATCTCAAACCTAGTG
ATAATGGAGAGCCAGAACTAGACATAATCTCAAATCCAAGAGATATCCAGATGGCAGAGACGTCCCAGAGGGCA
CGAAGCCAGAGCGCGCTCGTTCCGTGCCTATGCCGCTGTGCTCTATATTGATCCCCGGATGAGGATCTTCATCC
ATGGGCACAAGGTGCAGACCAAGAGGCTCTCTGTGCTGTACAAAGCCAGGATGTACAAGTACAGTCAAGCC
GTTTCAAGACCCGTGCGGAGCAGGAGGTGAAGAAAGCAGAGCAGTACGAAGGATTGCTGAAGAGAAGGCGCGGG
AGGCAGAGAGCAAAGCTCGGACATTAGAAGTACGCCTAGGTGGAGACCTCACGCGGGACTCCAGGGTGATGTTGC
GACAGGTCCAGAACAGAGCCATCACTCTGCGCAGAGAAGCCGATGTCAAGAAGAGGATCAAGGAGGCCAAGCAGC
GAGCACTTAAAGAACCTAAGGAACCTGAATTTTGTTTTTTGGTGCTCAACATTGAACACCGGGATCTGGATGGCATGT
TCATCTACAACCTGTAGCCGACTGATCAAAATGTATGAGAAAGTGGGCCACAGCTGGAAGGGGGCATGGCATGTG
GCGGGGTTGTTGGGGTTGTTGATGTGCCCTACCTGGTCTTGAGGCTACACACAACAAACAGGACTTTGCTGATG
CCAAGGAGTACCGGCACCTGCTCCGAGCAATGGGGGAGCACTGGCGCAGTATTGGAAGGATATTGCCATCGCCC
AGAGGGGAATCATCAAGTCTGGGATGAGTTTGGCTACCTCTCTGCCAACTGGAACCAGCCCCCGTCCAGTGAGC
TGCGTTACAAACGCCGGAGAGCTATGGAATCCCCACCACCATCCAGTGCGATTTGTGTCTGAAATGGAGAACCC
TCCCTTCCAGCTGAGTTCTGTGGAAAAAGATTACCCTGACACCTGGGTTTGCTCCATGAACCTGATCTGTAAC
AGGACCGGTGTGAGGCTTCTGAACAAAAGCAGAAGGTTCCCTGGGAACATTGAGAAAGGACATGAAGACGCAGG
AAGAGAAGCAGAAACAACCTGACAGAGAAAATTCGCCAGCAGCAGGAGAAGCTGGAGGCCCTTCAGAAAACACAC
CCATCCGCTCCCAAGCAGACCTGAAGAAATTGCCCTTGGAAAGTGACCACAGACCTTCCACTGAGGAACCTGTGC
GTAGACCTCAGCGTCTCGGTGCGCCCCCTTTACCTGCTGTGATCAGGAACGCCCCCAGCAGACCCCCCTTCTTTGC
CAACTCCTAGACCAGCCAGCCAGCCCCGAAAGGCTCCTGTATCAGCAGTACCCCAAAGCTCCCTGCTTTGGCAG
CCCGGGAGGAGGCCAGCACATCTAGGCTGCTCCAGCCACCTGAGGCACCCCGAAAGCCTGCCAACACTCTCGTCA
AGACTGCATCCCGACCTGCCCCCTCTGGTGACGAACTGTCAACCATCTTTACTGCCCAACTCCAAGAGCCCTCGGG
AGGTTCTTCTCCCAAAGTCATCAAGACTCCAGTGGTGAAGAAGACAGAGTACCCATCAAACCTCTCCCGGCTA
CCCCTAGTCGGAAGCGGAGTGTGCGAGTTTCTGATGAGGAAGAAGTTGAGGAGGAAGCTGAGAGGAGGAAGGAGA
GGTGCAAGCGGGGCAGATTTGTTGTGAAGGAGGAAAAGAAGGACTCGAATGAGCTCTCAGACAGTGTGGGGAAG
AGGACTCGGCTGACCTCAAGAGAGCTCAGAAAGATAAAGGGCTGCACGTGGAGGTGCGTGTGAACAGGGAGTGGT

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FIGURE 6005B

ACACGGGCGGTGTCACAGCCGTGGAGGTGGGCAAGCATGTGGTGCGGTGGAAGGTGAAGTTTGACTACGTGCCCCA
CAGACACGACACCAAGAGACCGCTGGGTGGAGAAAGGCAGTGAGGATGTGCGGCTGATGAAACCCCTTCTCCGG
AACATCAGAGCCTTGATACACAACAGGAGGGCGGGGAGGAGGAGGTGGGCCCTGTGGCCCAGCAGGCCATAGCTG
TCGCAGAGCCCTCCACTTCCGAATGCCTCCGCATTGAGCCTGACACCACTGCCCTGAGCACCAATCACGAGACCA
TCGACCTGCTTGTCCAGATCCTCCGGAATTGTTTACGGTACTTCCTGCCTCCAAGTTTCCCCATCTCCAAGAAGC
AGCTGAGTGCTATGAATTCAGATGAGCTAATATCTTTTCTCTGAAGGAGTACTTCAAGCAATATGAAGTAGGGC
TCCAAAACCTGTGCAATTCCTACCAGAGCCGTGCTGACTCCCGGGCCAAGGCCTCCGAGGAAAGCCTGCGCACCT
CCGAGAGGAAGCTCCGCGAGACGGAGGAGAAGCTGCAGAAGCTGAGGACCAACATCGTGGCACTCCTGCAAAAGG
TGCAGGAGGACATAGACATCAACACAGATGATGAGCTGGACGCCTACATTGAGGACCTCATCACCAAGGGGGACT
GAAGGCAGGAGAGAGAGCAGCTCCCCTGCCCACCTGCCCTCAACCCTGTAGCTGCAGGGGGAGGGGACTTCATT
CATGGGTTGGTGGTCGCACCTTGGTTTGACTTACACGGGACATTGTGTGTTTTGGAGGAAAAGATACCCTGATTC
TTTGAATCTTCCTTAAGTTTATAAATATTTATTTTTTAAAAG

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FIGURE 6006

MLCFLDDGAGMDPSDAASVIQFGKSAKRTPESTQIGQYGNGLKSGSMRIGKDFILFTKKEDTMTCLFLSRTFHEE
EGIDEVIVPLPTWNARTREPVDNVEKFAIETELIYKYSFRTTEEVMTQFMKIPGDSGTLVIIIFNLKLMNDGEP
ELDIISNPRDIQMAETSPEGTKPERRSFRAYAAVLYIDPRMRIFIHGHKVQTKRLSCCLYKPRMYKYTSSRFKTR
AEQEVKKAEHVARI AEEKAREAESKARTLEVRLGGDLTRDSRVMLRQVQNRAITLRREADVKKRIKEAKQRALKE
PKELNFVFGVNIHRDLDMFIYNCSRLIKMYEKVGPQLEGGMACGGVVGVDVPYLVLEPTHNKQDFADAKEYS
HLLRAMGEHLAQYWKDIAIAQRGI IKFWDEFGYLSANWNQPPSSELRYKRRRAMEIPTTIQCDLCLKWRTLFPQL
SSVEKDYPDTWVCSMNPDPEDRCEASEQKQKVPLGTFRKDMKTQEEKQKQLTEKIRQQQEKLEALQKTTPIRSQ
ADLKKLPLEVTTRPSTEPPVRRPQRPRSPPLPAVIRNAPSRRPSLPTPRPASQPRKAPVISSTPKLPALAAAREEA
STSRLLOPPEAPRKPANTLVKTASRPAPLVQQLSPSLLPNSKSPREVPSPKVIKTPVVKKTESPIKLSPATPSRK
RSVAVSDEEEVEEEAERRKERCKRGRFVVKEKKDSNELSDSAGEEDSADLKRAQKDKGLHVEVRVNREWYTRV
TAVEVGKHVVRWKVKFDYVPTDTPRDRWVEKGSVDRLMKPPSPEHQSLDTQQEGGEEVGPVQAQAIABAEP
TSECLRIEPTTALSTNHETIDLLVQILRNCLRYFLPPSFPI SKKQLSAMNSDELISFPLKEYFKQYEVGLQNL
NSYQSRADSRASEESLRTSERKLRTEEEKLQKLRTNIVALLQKVQEDIDINTDDELDAYIEDLITKGD

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FIGURE 6007

CAGAATCCAGGGGACGGTTGCTGAGCGGGCCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTGCGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAACAAGGAGAAGTGGCTGCACCTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAACCCCCACCCCTG
AAGGCACCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCACCCCAAGACCACAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGGCCCTCTGACACCAAGAGAGCAGACGTGGCTGGACCCCGACCCCTGCCAACGCTCCCTGTGGTGTC
TCAGCCCCCGCCAACCAGCCCAGAACCAGAGTCCACCCCTTGGCAGCGGACCTTCCTCATTCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCGCAAGGCTCCTGGGCCCCCTCCCTCACCAGCACCAACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGTTTCAGCAAGGAGCAACGAGGAGTAGCCCAGC
CCCTGGCCCAGCTTCAAGCTGCCCCAGGAGGAGGGCCAGGGGGCGGGGCTTGGCTGCTAGGCCCCCTTGAAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTCACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCTACTCAGCACCAAGTA
GTGGGGGCAAGAGCACCATCACCCGTGTCAACAGCCCTGGGACCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGACAAAGATGCTGGATCAGAGCACGGACTTG
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGCTCCGACAAAGGAAGAGAGACCAGCGGGACAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGGCCGACCAACACAGTGGAGTTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCAGCACCA
TGATGCAAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAGAAAGAAAGAGCTGATGAAGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAAGACTCGCGGCTACGAGCACGTCGACATCCAGAATTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCGACGCCAGAACTTCAGAGTGGCCTTCTCATCTGCGGAGATGCTGGTGGACTGTGTGCCCTGGTGG
AGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGCTTACCTATGTGAGTCGCTCTACA
ACCACCTGCGACGCCACGAAGTGCAGCTGCGCGGCAAGAATGTCTAGCCTGCCCCGCCGATGGCCAGCCAGTGG
CAAGCTGCCGCCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCACCAGCTGCCCTGTCTGTTGCGAC
ACCTTCCCCCCCCACATACACAGCAGCGTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6008

MADEALAGLDEGALRKLLLEVTAADLAERRRIRSAIRELQRQELEREEEEALASKRFRAERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRREDSKGLAA
HRLEQCEVPEREEQEQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRS
SVLSRQPAQNRESTPLASGPSSFQAGSVRDRVHKFTSDSPMAARLQDGTQAALSP LTPARLLGPSLTSTTPA
SSSSGSSSRGSDTSSRFSKEQRGVAQPLAQLRSCQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRGNTATETTTTRHSQRAADGS AVSTVTKTERLVHS
NDGTRTARTTTTVESSFVRRSENGSGSTMOTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFGVPNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYQLSPQNRQNFVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQS
LYNHLRRHELRLRGKNV

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FIGURE 6009

CAGAAATCCAGGGGACGGTTGCTGAGCGGGCTGGGACAGCGGGTCGCGGCACCTCCGGCCTGCGCGTGTCTAATC
CGTCTGTGCGGGTCCCGAAAGAGCTAAGCCGAGCCTGCGCCGGACGGGTGGGCTGGACTGAGAGAATTCTCTGAGC
TGGTGACAGGTGCCACAGGCACTGGGGATCTCACCAGAAAGGAACCGACGGAGCTAGGGGCCAGCGAGATGGCGG
ACGAGGCCTTAGCTGGGCTGGATGAGGGAGCCCTTCGGAAGCTGCTGGAGGTCACAGCAGATCTGGCAGAGCGGC
GGCGCATCCGCTCAGCCATCCGGGAAGTGCAGCGGCAGGAGCTGGAGCGCGAGGAGGAGGCCCTGGCATCCAAGC
GTTTCCGTGCCGAGCGGCAGGACAA CAAGGAGAACTGGCTGCACTCTCAGCAGCGGGAAGCTGAGCAGCGGGCTG
CCCTGGCACGGCTGGCAGGGCAGCTGGAGTCCATGAACGATGTGGAGGAATTGACTGCACTGTTGCGAAGCGCTG
GTGAGTATGAGGAGCGCAAGCTGATCCGAGCTGCCATCCGCCGTGTACGGGCTCAGGAGATTGAGGCTGCCACCT
TGGCTGGGAGGTTGTACAGCGGGCGTCCCAACAGTGGCTCAAGAGAGGACAGCAAGGGGCTAGCGGCACACAGGC
TGGAACAGTGTGAGGTGCCAGAGCGAGAGGAACAGGAACAGCAGGCAGAGGTTTCAAAGCCAAACCCCCACCCCTG
AAGGCACCCAGCCAGGATGTGACCACAGTGACACTCCTGCTGCGAGCCCCACCTGGGAGCACATCCAGCTCACCTG
CCTCACCCAGCAGTTACCCACCCCTGCCTCTCCTGAGCCTCCATTGGAGCCTGCCGAGGCCAGTGCCCTTACAG
CTGAGGTTCCAGGCAGCCCAGAGCCACCCCCAGCCACCCCAAGACCACCCAGCCCTGAGCCTCAGGAGTCTCCAA
CGCTCCCCAGCACTGAGGGCCAGGTGGTCAACAAGCTTCTGTCTGGCCCCAAAGAGACCCCTGCTGCCAGAGCC
CCACCAGAGGCCCTCTGACACCAAGAGAGCAGAGTGGCTGGACCCCGACCCCTGCCAACGCTCCCTGTGGGTGC
TCAGCCCCCGCCAACCCAGCCAGAACCAGAGTCCACCCCTTGGCAGCGGACCTTCCTCATTCCAGCGGGCTG
GCTCTGTGCGGGATCGTGTCCACAAGTTCACATCTGATTCTCCTATGGCTGCTAGGCTCCAGGATGGCACACCCC
AGGCTGCCCTAAGTCCCCTGACCCCCGCAAGGCTCCTGGGCCCTCCCTCACCAGCACCACCCCTGCCTCCTCCT
CCAGCGGCTCCTCCTCTCGGGGCCCCAGTGATACCTCCTCCCGTTTCAAGAGGAGCAACGAGGAGTAGCCACAGC
CCCTGGCCCCAGCTTCGAAGCTGCCCCCAGGAGGAGGGCCCCAGGGGGCGGGGCTTGCTGCTAGGCCCCCTTGAA
ACAGAGCAGGGGGGCTGTGGCACGTTAGAGGAGCCTGGTGCCCCGCTGCCCGTGCCGTCGGCACTGCCGAGC
CAGGGGGCAGTATGAAGACCACATTACCATCGAGATCAAGGACGGCCGTGGCCAGGCCTCCACAGGCCGGGTGC
TGCTGCCCCACAGGCAACCAGAGGGCAGAACTGACACTGGGGCTGCGGGCGCCCCGACCCCTACTCAGCACCAGTA
GTGGGGGCAAGAGCACCATACCCGTGTCAACAGCCCTGGGACCCCTGGCTCGGCTGGGCAGTGTCACTCATGTCA
CCAGCTTCAGCCATGCCCCCCCCAGTAGCCGAGGAGGCTGCAGCATCAAGATGGAAGCAGAGCCAGCAGAGCCTC
TCGCTGCAGCAGTGAAGCGGCCAATGGGGCTGAGCAGACCCGAGTGAACAAAGCACCAGAAGGGCGGAGCCCTC
TGAGCGCTGAGGAGCTGATGACTATTGAGGATGAAGGAGTCTTGACAAGATGCTGGATCAGAGCACGGACTTGT
AAGAGCGGAAGCTCATCCGGGCTGCACTTCGTGAGTCCGACAAAGGAAGAGAGACCAGCGGGCAAGGAGCGGG
AACGGCGGCTGCAGGAGGCACGGGGCCGGCCAGGGGAGGGGCGCGGCAACACAGCCACTGAGACCACACGAGGC
ACAGCCAGCGGGCAGCTGATGGCTCTGCTGTGAGCACTGTTACCAAGACTGAGCGGCTCGTCCACTCCAATGATG
GCACACGGACGGCCCGCACCACCACAGTGGAGTCGAGTTTCGTGAGGCGCTCGGAGAATGGCAGTGGCACCA
TGATGCAAACCAAGACCTTCTCCTCTTCTCCTCATCCAAGAAGATGGGCAGCATCTTCGACCGCAGGACCAGG
CCAGCCCACGGGCCGGCAGCCTGGCGGCGCTCGAGAAACGGCAGGCCGAGAAGAAGAAAGAGCTGATGAAGGCGC
AGAGTCTGCCCAAGACCTCAGCCTCCCAGGCGCGCAAGGCCATGATTGAGAAGCTGGAGAAGGAGGGCGCGGCCG
GCAGCCCTGGCGGACCCCGCGCAGCCGTGCAGCGATCCACCAGCTTCGGGGTCCCCAACGCCAACAGCATCAAGC
AGATGCTGCTGGACTGGTGTGAGCCAAGACTCGCGGCTACGAGCACGTCGACATCCAGAATTCTCCTCCAGCT
GGAGTGATGGGATGGCCTTCTGTGCCCTGGTGCACAACTTCTTCCCTGAGGCCCTTCGACTATGGGCAGCTTAGCC
CTCAGAACCAGCAGCCAGAACTTCAGGTTGGCCTTCTCATCTGCGGAGACCCATGCGGACTGCCCCGAGCTCCTGG
ATACAGAGGACATGGTGCAGCTTCGAGAGCCTGACTGGAAGTGCCTGTACACGTACATCCAGGAATTCTACCGCT
GTCTGGTCCAGAAGGGGCTGGTAAAAACCAAAAAGTCTTAAACCCCTGCTCGGGGCCCCACGGATGCTGGTGGACT
GTGTGCCCTGGTGGAGGTGGACGACATGATGATCATGGGCAAGAAGCCTGACCCCAAGTGTGTCTTACCTATG
TGCAGTCGCTCTACAACCACCTGCGACGCCACGAATGCGCCTGCGCGGCAAGAATGTCTAGCCTGCCCGCCCGC
ATGGCCAGCCAGTGGCAAGCTGCCGCCCCACTCTCCGGGCACCGTCTCCTGCCTGTGCGTCCGCCCCACCGCTGC
CCTGTCTGTTGCGACACCCCTCCCCCCCCACATACACAGCAGCGTTTTTGATAAATTATTGGTTTTCAACG

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FIGURE 6010

MADEALAGLDEGALRKLEVTADLAERRRIRSAIRELQRQELEREEEEALASKRFRERQDNKENWLHSQQREAEQ
RAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSRREDSKGLAA
HRLEQCEVPEREEQEQAEVSKPTPTPEGTSQDVTTVTLILLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQC
LTAEVPGSPEPPPSPPKTTSPPEQESPTLPSTEGQVVKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRS
SVLSRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTQAALSPLTPARLLGPSLTSTTPA
SSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGT
AEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVT
HVTLSFSHAPPSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQST
DFEERKLIRAAALRELQRKRQDQDKERERRLQEARGRPGEGRNTATETTTTRHSQRAADGSASVSTVTKTERLVHS
NDGTRTARTTTTVESSFVRRSENGSGSTMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKROAEKKKELM
KAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFVGNANSIKQMLLDWCRAKTRGYEHVDIQNFS
SSWSDGMAFCALVHNFFPEAFDYGQLSPQNRQNFVAFSSAETHADCFQLLDTEDMVRLREPDWKCVCYTYIQEF
YRCLVQKGLVKKKS

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FIGURE 6011

GCGGTGGCAGTTTGCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGGCCACAGGGTACTCGCCACGATGAGCAGCA
CCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCGGACTCAAAGAACAAGGCCACAGCACACCACTTAG
GGCTGCTTAAGGCTCGTCTTGCTAAGCTTCGTGAGAACTCATTACTCAAAGGGTGGTGGTGGTGGAGGTCCAG
GAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAAGTCAA
CACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCACTACTCTGACCACTGTGCCTG
GTGTCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGATCTCCAGGTATCATTGAAGGTGCCAAGGATGGGA
AAGGTAGAGGTCGTCAAGTCATTGCAGTGGCCCCGAACCTGTAACCTTGATCTTGATTGTTCTGGATGTCCTGAAAC
CTTTGGGACATAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCCCAACA
TTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCAGCCACTTGCCCCAGAGTGAGCTGGATGCTGAAA
CTGTGAAGAGCATTCTGGCTGAATACAAGATTGATAATGCCGATGTGACTCTACGTAGTGATGCTACAGCTGATG
ACCTCATTGATGTGGTGGGAAGGAAACAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAATCT
CCATTGAGGAATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCCCATCACCGCTGGAATTTTG
ATGACCTATTGGAAAAGATCTGGGACTATCTGAAACTAGTGAGAATTTACACCAAACCCAAAGGCCAGTTACCAG
ATTACACATCCCCAGTGGTGCTTCCTTACTCCAGGACCACAGTGGAGGATTTCTGCATGAAGATTCACAAAAATC
TTATCAAAGAATTTAAATATGCTCTGGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAAGACC
ATACGTTGGAGGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGGACGAA
CCACAACAGCGTTCCCCATGATCAAGCACCCCTACCCAGTTCTTTCTGGTTTTGGCAGTCACTGGATCAGGATCC
AGGGGAGGGAGATGGAGGCACCCAACTGGAACCTTCAATTTGTCTTACCTTGGTGTACCTTGTATGTGCAACTGC
ATAAAAGATCTGGTAGGCTGGTCAGCTACATGC

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FIGURE 6012

MSSTLAKIAEIEAEMARTQKNKATAHHLGLLKARLAKLRRELITPKGGGGGGPGEFDDVAKTGDARIGFVGFP
GKSTLLSNLAGVYSEVAAYEFTTLTTPGVIRYKGAKIQLLDLPGIIEGAKDGKGRGRQVIAVARTCNLILIVLD
VLKPLGHKKIIELELEGFGIRLNSKPPNIGFKKKDKGGINLTATCPQSEDAETVKSILAEYKIHNAADVTLRSDA
TADDLIDVVEGNRVYIPCIYVLNKIDQISIEELDIYKVPKVPISAHHRWNFDDLLEKIWDYLLKLVRIYTKPKG
QLPDYTSPPVLPYSRTTVEDFCMKIHKNLIKEFKYALVWGLSVKHNPQKVGKDHTLEDEDVIQIVKK

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FIGURE 6013

GTGAGCGGAGCCGGCGCCCCGGCCCTGCCGGGAGCCCCAGGTGACTTCTCAGGGAGGCGCCCCACCCTGCCCCGCT
CAGAGGGCCAGTGCCGGGTGGGGGTGCCCTTCTAGGGCCTTCGGTCGCAGGTGGGCTCTCCCAGCTGTGACGACG
CGGCCCCGGCCTGAGGAGCCCCGCGGACAAGGTTGAGCGAGTCGTGGGCTTTTTTTCCGTCCCCACGTGGGCACG
GCCCCGGGCTGCGTGAGCTCACTTCCTCCACATCTTATCTCCTGCCGGGCGCGGGCGCTTCCCATCAGACAGCAGG
AGCCAGTTCTCAGGGTCCTTGGCTGAACACACAAGCTGCAAAGCTACATATACTCCGGCAGAGCTGGCTGCGGGC
TGCAGACTGCAGGGCCGGTCACTCCGCGCAAGTTTGGGTTCTGTGTTTTAGAACTGCCACCTAAGCCCCCTTTATT
TCATCTTTCCTGTGGTGGAAACCCCTGCCCCACCGGAGTGTGAGGTTGACTTTTTGGAAAGAGAGCCCTGACCC
TCTATTCTGCACCCGTGAGCCACCGAGACTGAACCAAACCCAGGAAGCGCGCCACCAACCAGCCTCGCAGAGG
CAGAGGCCCTGGAGCAGTGACAGCACAGGAGATCTGCTGGCTCGGGGAAGGGGA

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FIGURE 6014

CTCTTTTACCAAGGACCCGCCAACATGTGCCGCGTTTGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCATA
GAAAAGTACTACACACGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCAAGGAGATCGCCATTATCCCC
AGCAAGAAGCTCCGCAACAAGATAGCAGGCTATGTCACGCATCTGATGAAATGGATTTCAGAGAGGCCCCAGTAAGA
GGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCCCTGAGGTCTCAGCCTTGGAT
CAGGAGATAATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCTG
CAGGTCACTCAGCCTACAGTTGGGATGAACTTCAAAATGCCTCGGGGACCTGTTTGAATTTTTTCTGCAGTGCTG
TATTATTTTCAATAAATCTGGCACAACAGC

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FIGURE 6015

GCTCTGAGAAGCCGGACTACGCGGCAGCGGCTCTTCAAAGCGGAGCCGGGAGTTTTTGCTACAGTTTTTCGCCACC
ATGAGTCGCAGCTATAATGATGAGCTGCAGTTCTTGAGAGAAGATCAATAAAAACTGCTGGAGGATCAAGAAGGGC
TTCGTGCCCAACATGCAGGTTGAAGGTGTTTTCTATGTGAATGATGCTCTGGAGAAATTGATGTTTGAGGAATTA
AGGAATGCCTGTGAGGTTGGTGGTGTGGTGGCTTCTGCCAGCCATGAAACAGATTGGCAATGTGGCAGCCCTG
CCTGGAATTGTTTCATCGATCTATTGGGCTTCTGATGTCCATTGAGGATATGGGTTTGCTATTGGGAACATGGCA
GCCTTTGATATGAATGACCCTGAAGCAGTAGTATCCCCAGGTGGTGTGCGGGTTTGACATCAACTGTGGTGTCCGC
TTGCTAAGAACCAATTTAGATGAAAGTGATGTCCAGCCTGTGAAGGAGCAACTTGCCCAAGCTATGTTTGACCAC
ATTCCTGTTGGGGTGGGGTCAAAAGGTGTATCCCAATGAATGCCAAAGACTTGAGGAGGGCCTTGAGATGGGG
GTGGACTGGTCCTTAAGAGAAGGGTATGCCTGGGCTGAAGACAAGGAGCACTGCGAGGAGTACGGAAGGATGCTG
CAGGCTGACCCCAATAAAGTTTCTGCAAGGGCGAAGAAAAGAGGCCTTCTCAGTTGGGGACCCTGGGAGCAGGC
AACCATTATGCAGAAATCCAGGTTGTGGATGAGATTTTCAATGAGTATGCTGCTAAAAAATGGGCATCGACCAT
AAGGGACAGGTGTGTGTGATGATCCACAGTGGAAGCAGAGGCTTGGGCCACCAAGTAGCCACAGATGCGCTGGTA
GCTATGGAGAAGGCCATGAAGAGAGACAAGATTATAGTCAATGATCGGCAGTTGGCTTGTGCTCGAATCGCTTCC
CCAGAGGGTCAAGACTATCTGAAGGGAATGGCAGCTGCTGGGAACATGCCTGGGTCAACCGCTCTTCCATGACC
TTCTTAACCCGTCAGGCTTTCGCCAAGGTCTTCAACACAACCCCTGATGACTTGGACCTACATGTGATCTATGAT
GTTTCTCACAACATTGCCAAAGTGGAGCAGCATGTGGTGGACGGAAGGAACGGACACTGTTAGTACACAGGAAG
GGATCCACCCGCGCTTCCCTCCTCACCATCCCCTCATTGCTGTTGATTACCAACTCACTGGACAGCCAGTGCTC
ATTGGTGGCACCATGGGAACCTGTAGTTATGTTCTTACTGGCACTGAACAGGGCATGACTGAGACCTTTGGAACA
ACCTGTCATGGAGCGGGCCGTGCATTGTCCCAGCAAAATCTCGACGTAATTTAGATTTCCAGGATGTCTTAGAC
AAATTGGCAGATATGGGAATTGCGATCCGTGTTGCCTCACCCAAACTGGTTATGGAAGAGGCTCCTGAGTCCTAT
AAGAATGTGACAGATGTGGTAAATACCTGCCATGATGCTGGAATCAGCAAGAAAGCCATTAACTGAGACCAATT
GCTGTGATCAAAGGATAGAACCTTGGACAGCAGGGCTGCCTGACACCACCAACCCCTCTCTGAAGTGGAAAGTGGAC
TGACATGCTCTTCTGACATCAGACTCAAGGCGGGACAAGTTGCAAAGTGTGCAGCTGTAAGTGTCTACGCCAAAA
TGGCTGATGGGGAGGCTGCTGCTTTTCAAGGGCCCGTGCTTGTAATAAACCTTCCAGGAAGAGGCACATTGCCCA
CCTTTGGAAAGGGAGGAATATGCCTTCTCCTTGGTTGTTCCACAGAGTTTTAGGAAAATCTGTTAGGGATGGGTA
GATGTCAAACCTGCCTTACGCAGTCATACTGATCTTTAGCCATCAGATTGATCTTCTTACACCAAGCTCTGTTTA
CATTCCGAGAGGTGTATGAAGAAAGTTCTGTTCAATAAGGTTTTGGAATGTTTC

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FIGURE 6016

MSRSYNDELQFLEKINKNCWRIKKGFVPMQVEGVFYVNDALFKLMFEELRNACRGGGVGGFLPAMKQIGNVAAL
PGIVHRSIGLDPDVHSGYGFAIGNMAAFDMNDPEAVVSPGGVGF DINCGVRLRLRTNLDES DVQPVKEQLAQAMFDH
IPVGVGSKGVIPMNAKDLEEALEMVDWSLREGYAWAEDKEHC EYGRMLQADPNKVSARAKKRGLPQLGTLGAG
NHYAIEIQVVDEIFNEYAAKKMGIDHKGQVCVMIHSGSRGLGHQVATDALVAMEKAMKRDKIIVNDRQLACARIAS
PEGQDYLKGMMAAGNYAWVNRSSMTFLTRQAFKVFNTTPDDLHLHVIYDVSHNIAKVEQHVV DGKERTLLVHRK
GSTRAFP PHHPLIAVDYQLTGQPVLIGGTMGTCSYVLTGTEQGMTETFGTTCHGAGRALSRAKSRRNLDFQDVLD
KLADMGIAIRVASPKLVMEEPESYKNVTDVVNTCHDAGISKKAIKLRPIAVIKG

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FIGURE 6017

CCCCGAGAGGCCCGGTTCCCTTTAGGCCGCCTGCCCGCCTCCAGCTCTCGGGGTCTGGGCTCTAGGAGGCGCCCTCAG
GAGAGGGGCGGGCGCTCTATTCCAGAGACCGAGTGCCAGGGCGGCCACTGTGGCGGGGCTCTTTCCCGTTTCGC
CTCAGCTACCCCTCAGCTCCGGTAGTCGCCAGTCCGGGGTCGTCGCCGTTTGGGGCGGGAGCTGCTCGGCCCGC
CGCCGTCCCGTCCGCGCTTCCGGGTCCAGGCCCTCGGGCCGCCTGCCGCCGTCATGAGGCTGCGGGTGCGGCT
TCTGAAGCGGACCTGGCCGCTGGAGGTGCCGAGACGGAGCCGACGCTGGGGCATTGCGCTCGCACCTGAGGCA
GTCCCTGCTGTGCACCTGGGGGTACAGTTCTAATACCCGATTTACAATTACATTGAAGTACAAGGATCCCTCAC
TGGAGATGAAGAGACCTTGGCTTCATATGGGATTGTTTCTGGGGACTTGATATGTTTGATTCTTCAAGATGACAT
TCCAGCGCTAATATACCTTCATCCACAGATTCAGAGCATTCTTCACTCCAGAATAATGAGCAACCTCTTTGGC
CACCAGCTCCAATCAGACTAGCATAACAGGATGAACAACCAAGTGATTCAATCCAAGGACAGGCAGCCAGTCTGG
TGTTTGGAATGACGACAGTATGTTAGGGCCTAGTCAAAATTTGAAGCTGAGTCAATTCAAGATAATGCGCATAT
GGCAGAGGGCACAGGTTTCTATCCCTCAGAACCCATGCTCTGTAGTGAATCGGTGGAAGGGCAAGTGCCACATTC
ATTAGAGACCTTGATCAATCAGCTGACTGTTCTGATGCCAATGATGCCTTGATAGTGTGATACATCTTCTCAT
GTTGGAGTCAGGTTACATACCTCAGGGCACCGAAGCCAAAGCACTGTCCATGCCGGAGAAGTGGAAGTTGAGCGG
GGTGATATAAGCTGCAGTACATGCATCCTCTCTGCGAGGGCAGCTCCGCTACTCTCACCTGTGTGCCTTTGGGAAA
CCTGATTGTTGTAAATGCTACACTAAAAATCAACAATGAGATTAGAAGTGTAAGAGATTGCAGCTGCTACCAGA
ATCTTTTATTTGCAAAGAGAACTAGGGGAAAATGTAGCCAACATATACAAAGATCTTCAGAACTCTCTCGCCT
CTTTAAAGACCAGCTGGTGTATCCTCTTTTGGCTTTTACCCGACAAGCACTGAACCTACCAGATGTATTTGGGTT
GGTCGTCTCTCCATTGGAACGAACTACGGATCTTCCGACTTCTGGATGTTGTTCCGTCTTGTCTTTGTCTGC
GGTTTGTCTGACCTCTTTACTGCTTCAAATGACCCACTCCTGTGGAGGTTTTATATCTGCGTGATTTTCGAGA
CAATACTGTGAGATTCAAGACACAGATTGGAAAGAACTGTACAGGAAGAGGCACATACAAAGAAAAGAATCCCC
GAAAGGGCGGTTTGTGATGCTCCTGCCATCGTCAACTCACACCATTCATTCTATCCCAACCCCTTGCACCCTAG
GCCATTTCTAGCTCCCGCCTTCCCTCCAGGAATTATCGGGGGTGAATATGACCAAAGACCAACACTCCCTATGT
TGGAGACCAATCAGTTCACTCATTCTTGGTCTTGGGGAGACGCCAGCCAGTTTCCCTCCACTGAGACCAGCTT
TGATCCAGTTGGCCCACTTCCAGGACCTAACCCATCTTGCCAGGGCGAGCGGCCCAATGACAGATTTCCCTT
TAGACCCAGCAGGGGTGCGCCAACCTGATGGCCGGCTGTCATTCATGATTGATTGTAAATTTCAATTTCTGGAGC
TCCATTTGTTTTTGTCTTAAACTACAGATGTCAACTCCTTGGGGTGCTGATCTCGAGTGTTATTTCTGATTGT
GGTGTTGAGAGTTGCACTCCCAGAAACCTTTTAAAGAGATACATTTATAGCCCTAGGGGTGGTATGACCAAAGGT
TCCTCTGTGACAAGGTTGGCCTTGGGAATAGTTGGCTGCCAATCTCCCTGCTCTTGGTTCTCCTCTAGATTGAAG
TTTGTTTTCTGATGCTGTTCTTACCAGATTAAAAAAAAGTGTAATTAATAAAAAAAAAAAAAAAAAA

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FIGURE 6018

MRLRVRLKRTWPLEVPEPTLGHLRSHLRQSLCTWGYSSNTRFTITLNYKDPLTGDEETLASYGIVSGDLIC
LILQDDIPAPNIPSSDSEHSSLQNEQP SLATSSNQTSIQDEQPSDSFQGQAAQSGVWDDSM LGPSQNFEAES
IQDNAHMAEGTGFYPSEPM LCSESVEGQVPHSLETLYQSADCS DANDALIVLIHLLMLES GYIPQGTEAKALSMP
EKWKLSGVYKLQYMHPLCEGSSATLTCVPLGNLIVVNATLKINNEIRSVKRLQLLPESFICKEKLGENVANIYKD
LQKLSRLFKDQLVYPLLAFT RQALNLPDVFGLVVLPLELKLRIFRLLDVRSVLSLSAVCRDLFTASNDPLLWRFL
YLRDFRDNTVRVQD TDWKELYRKRHIQRKESPKGRFVMLLPSSSTHTIPFYPNPLHPRFPFPSSRLPPGIIGGEYDQ
RPTLPYVGDP ISSLIPGPGETPSQFPPLRPRFDFVGPLPGPNPILPGRGGPNDRFPFRPSRGRPTDGRLSFM

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FIGURE 6019A

CTTGCCCCAGAGCTGATCCTTGTCTTTGTCCACTTCTCAGCGAGGATGGCACTTCAGGGAGCCCTTCCCTTACTA
TCGCAGAGAGAGCAGGCCCTCCCCAGTCATGTCCAACCCAGAACTCTGTTTTGTTTTCTTCATAGCCCTAGCATC
ACAGAAAAATCACCCTGTGCATTTCATGGATGTCCACGGGGGCAAGGGCTTTGTGTTGCTTAACCCAGCATCCTGAA
CCGTGTTTTGTGAATGAATACAGAACCCCGTTTGCTCTGGGAGAGCACAGAAAACAGTCTTCTATCATATATCAT
AGCCAGCTGCAAAACAGCAGATGGCTTCCCATATCCCAGAGAGTAAGAACCAGAGAGAGAGAGAAAGAGAGAGAGT
TTGGGTCTTCTCCTCTGTGCTCTCTCCAGAGAACTGGAGGGGTAGCAGTTAGCATTCCCCCGCTGGTTC
CACCAAGCACAGTCAAGGTCTCTAGGACATGGCCACCCCTCACCTGTGGAAGCGGTCTGTGGGTGGGTGGGT
GTTAGTTGGTTCTGGTTTGGGTCAGAGACACCCAGTGGCCAGGTGGGCGTGGGGCCAGGGCGCAGACGAGAAGG
GGCACGAGGGCTCCGCTCCGAGGACCCAGCGGCAAGCACCGGTCCCGGGCGCGCCCCAGCCCACCCACTCGCGTG
CCCACGGCGGCATTATTCCCTATAAGGATCTGAACGATCCGGGGGCGGCCCCGCCCCGTTACCCCTTGCCCCCGG
CCCCGCCCCCTTTTGGAGGGCCGATGAGGTAATGCGGCTCTGCCATTGGTCTGAGGGGGCGGGCCCCAACAGCC
CGAGGCGGGTCCCCGGGGGCCAGCGCTATATCACTCGGCCGCCAGGCAGCGGCGCAGAGCGGGCAGCAGGCA
GGCGGCGGGCGCTCAGACGGCTCTCCTCCTCCTCTGTCTCTCCAGCTCCTGCTCCTTCGCCGGGAGGGCCGCC
GCCGAGTCTGCGCCAGCGCCGAGGCAGCCTCGCTGCGCCCCATCCCGTCCCGCCGGGCACTCGGAGGGCAGCGC
GCCGGAGGCCAAGTTGCCCCGCACGGCCCGGCGGGCGAGCGAGCTCGGGCTGCAGCAGCCCCGCCGGCGGCGCG
CACGGCAACTTTGGAGAGGCGAGCAGCAGCCCCGGCAGCGGCGGCAGCAGCGGCAATGACCCCTTGGCTCGGGCT
CATCGTCTCCTGGGCAGCTGGAGCCTGGGGGACTGGGGCGCCGAGGCGTGCACATGCTCGCCCAGCCACCCCCA
GGACGCCTTCTGCAACTCCGACATCGTGATCCGGGCCAAGGTGGTGGGGAAGAAGCTGGTAAAGGAGGGGCCCTT
CGGCACGTGGTCTACACCATCAAGCAGATGAAGATGTACCGAGGCTTACCAAGATGCCCCATGTGCAGTACAT
CCATACGGAAGCTTCCGAGAGTCTCTGTGGCCTTAAGCTGGAGGTCAACAAGTACAGTACCTGCTGACAGGTG
CGTCTATGATGGCAAGATGTACACGGGGCTGTGCAACTTCGTGGAGAGGTGGGACCAGCTCACCTCTCCCAGCG
CAAGGGGTGAACTATCGGTATCACCTGGGTGTAACTGCAAGATCAAGTCTGCTACTACCTGCCTTGCTTTGT
GACTTCCAAGAACGAGTGTCTCTGGACCGACATGCTCTCQAATTTGCGTTACCCTGGCTACCAGTCCAAACACTA
CGCCTGCATCCGGCAGAAGGGCGGCTACTGCAGCTGGTACCGAGATGGGCCCCCGGATAAAAGCATCATCAA
TGCCACAGACCCCTGAGCGCCAGACCCTGCCCCACCTCACTTCCCTCCCTTCCCGCTGAGCTTCCCTTGGACACT
AACTCTTCCAGATGATGACAAATGAAATAGTGCTGTTTTCTTGCAAATTTAGCACTTGAACATTTAAAGAAA
GGTCTATGCTCATATGGGGTTTATTGGGAACATCCTCCTGGCCCCACCCTGCCCTTCTTTTGGTTTTTGAC
ATCATTCAATTTCCACCTGGGAATTTCTGGTGCCATGCCAGAAAGAATGAGGAACCTGTATTCTCTCTCTGTGA
TAATATAATCTCTATTTTTTTAGGAAAACAAAACTACTCCATTTGAGGATTGTAATTTCCACCCCTC
TTGCTTCTTCCCCACCTCACCATCTCCAGACCCTCTTCCCTTTGCCCTTCTCCTCCAATACATAAAGGACACAG
ACAAGGAACCTTGCTGAAAGGCCAACCATTTAGGATCAGTCAAAGGCAGCAAGCAGATAGACTCAAGGTGTGTGA
AAGATGTTATACACCAGGAGCTGCCACTGCATGTCCCAACCAGACTGTGTCTGTCTGTCTGCTGATGTAAGAGTG
AGGGAGGGAAGGAAGGAAGTACAAGAGAGTCGGAGATGATGCAGCACACACACAATTTCCAGCCAGTGTGCT
TGTGTTGACCAGATGTTCTTGAGTCTGGAGCAAGCACCCAGGCCAGAATAACAGAGCTTTCTTAGTTGGTGAAGA
CTTAAACATCTGCCGAGGTGAGGAGGCAATTTGCCTGCCTTGTACAAAAGCTCAGGTGAAAGACTGAGATGAAT
GTCTTTCTCTCCTGCCCTCCACAGACTTCCCTCCTGGAAAACGCTTTGGTAGATTTGGCCAGGAGCTTTCTTT
TATGTAAATTGGATAAATACACACACCATACTATCCACAGATATAGCCAAGTAGATTTGGGTAGAGGATACTA
TTTCCAGAATAGTGTTTAGCTCACCTAGGGGGATATGTTTGTATACACATTTGCATATACCCACATGGGGACATA
AGCTAATTTTTTTACAGGACACAGAAATCTGTTCATGCTGTTAAATATGCCAATAGTTTAACTCTCTTATTTT
GTTGTCGTTGCTTGTGTTGAAGAAAATCATGACATTCCAAGTTGACATTTTTTTTTTCAATTTAATTAATTTGAA
ATTCTGAACACCGTCAGCACCCCTCTCTTCCCTATCATGGGTCTGACCCCTGTCCGTCTCCTTGCTCCCTGCTT
CATGTTTGGGGGCCCTTTCTTTAACTGCCTTCTGCTTAGCTCAGATGGCAGATGAGAGTGTAGTCAAGGGCCTG
GGCACAGGAGGGAGAGCTGCAGAGTGTCTGCTGCTTGGCTGGAGGGACACCTCTCCTGGGTGTGGAGACAGC
TTGGTTCCCTTTCCCTAGCTCCCTGGTGGGTGAATGCCACCTCCTGAGATCCTCACCTCTTGAATTAATTTGT
TGGTCACTGGGGAAAGCCTGAGTTTGCAACCAGTTGTAGGGTTTCTGTTGTGTTTTTTTTTTTTTTTTTGAATA
AACTATAATATAAATTTCTCTATTAATAAAAATTTTAAAGTTTTAGTGTCAAAGTGAGATGCTGAGAGTAG
GTGATAATGTATATTTTACAGAGTGGGGGTGGCAGGATGGTGACATTGAACATGATTGCTCTCTGCTCTTTTTT
TCAGCTTATGGGTATTTATCTTCTATTAGTATTTGTATCTTCAGTTCAATTCACCTTTAGGAAACAGAGCTGCCAA

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FIGURE 6019B

TTGAAACAGAAGAAGAAAAAAGCAGCAGACAACACACTGTAGAGTCTTGACACACACAAGTGCCCAG
GCAAGGTGCTTGGCAGAACCGCAGAGTGGGAAGAGAGTACCGGCATCGGGTTTCCTTGGGATCAATTTATTACC
GTGTACCTTTCCCATTTGTGGTCATGCCATTTGGCAGGGGAGAAATGGGAGGCTTGGCCTTCTTTGTGAGGCAGTG
TGAGCAGAAGCTGATGCCAGCATGTCACTGGTTTTGAAGGGATGAGCCCAGACTTGATGTTTTGGGATTGTCCTT
ATTTTAACCTCAAGGTCTCGCATGGTGGGGCCCTGACCAACCTACACAAGTTCCCTCCCACAAGTGGACATCAG
TGTCTTCTCTGTGAGGCATCTGGCCATTGCACTCCCTGGTGTGGTCAGCCTCTCTCACACAAGGAGGAACCTGG
GTGAAGGCTGAGTGTGAGGCACCTGAAGTTTCCCTGCGGAGTCGATAAATTAGCAGAACCACATCCCCATCTGTT
AGGCCTTGGTGAGGAGGCCCTGGGCAAAGAAGGGTCTTTCGCAAAGCGATGTCAGAGGGCGGTTTTGAGCTTTCT
ATAAGCTATAGCTTTGTTTATTTACCCGTTCACTTACTGTATAATTTAAATCATTATGTAGCTGAGACACTT
CTGTATTTCAATCATATCATGAACATTTTATTTTGCTAAATCTTGTGTCATGTGTAGGCTGTAATATGTGTACAT
TGTGTTTAAGAGAAAAATGAAACCCACATGCCGCCATTTTCCTGAATCAAATTCTGCAGTGGAAATGGAGAGGAAA
ATACTTCTAGGCAAGCAGCTAGACTGGTGAATTGGGGGAAATAGAAGGAAGTAGTAAGTGAAGTCTCCAGCCT
CCTCCCTATTGGAATCCCAATGGCTCCTGGAGTAGGAAAAAGTTTAAACTACATTCATGTTCTTGTCTGTGTC
ACTCGGCCCTGGGTAGTCTACCATTTACTTCACCCCAAGTCCTGCTGCCCATCCAGTTGGGAAGCCATGATTTTC
CTAAGAATCCAGGGCCATGGGAGATACAATTCCAAGTTCTCGCTTCCTCCTTTGGGCATCTCTTCTGCCTCCCAA
TCAAGGAAGCTCCATGCTCAGGCTCTCAGCTCTCGGGCCAGTGCTCTGCTCTGTCCAGGGTAGGTAATACTGGGA
GACTCCTGTCTTTTACCCCTCCCTCGTTCCAGACCTGCCTCATGGTGGCAACATGGTTCTTGAACAATTAAAGAA
ACAAATGACTTTTTTGAATAGCCCTGTCTAGGGCAAACCTGTGGCCCCCAGGAGACACTACCCTTCCATGCCCCAG
ACCTCTGTCTTGCAATGTGACAATTGACAATCTGGACTACCCCAAGATGGCACCACAGTGTGTTGGCTTCTGGCTAC
CTAAGGTTAACATGTCACTAGAGTATTTTATGAGAGACAAACATTATAAAAAATCTGATGGCAAAAGCAAAACAA
AATGGAAAAGTAGGGGAGGTGGATGTGACAACAACCTTCAAATTTGGCTCTTTGGAGGCGAGAGGAAGGGGAGAACT
TGGAGAATAGTTTTTGGCTTTGGGGGTAGAGGCTTCTTAGATTCTCCAGCATCCGCCTTTCCCTTTAGCCAGTCT
GCTGTCTTGAACCCAGAAAGTATGGAGAGAAACCAACAAGAGATCTCGAACCCTGTCTAGAAGGAATGTATTTG
TTGCTAAATTTTCGTAGCACTGTTTACAGTTTTCTCCATGTTATTTATGAATTTTATATTCGTGAATGTATATT
GTCTTGTAATGTTGCATAATGTTCACTTTTTATAGTGTGTCCTTTATTCTAAACAGTAAAGTGTTTTATTCTA
TCAC

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FIGURE 6020

TCAACGCCTGCCTCCCTCGAGCGTCCTCAGCGCAGCCGCCGCCGCGGAGCCAGCACGAACGAGCCCAGCACCG
GCCGGATGGAGCGTCCGCAACCCGACAGCATGCCCCAGGATTTGTGAGAGGCCCTGAAGGAGGCCACCAAGGAGG
TGCACACCCAGGCAGAGAATGCTGAGTTCATGAGGAACTTTCAGAAGGGCCAGGTGACCCGAGACGGCTTCAAGC
TGGTGATGGCCTCCCTGTACCACATCTATGTGGCCCTGGAGGAGGAGATTGAGCGCAACAAGGAGAGCCCAGTCT
TCGCCCCGTGTCTACTTCCCAGAAGAGCTGCACCGCAAGGCTGCCCTGGAGCAGGACCTGGCCTTCTGGTACGGGC
CCCGCTGGCAGGAGGTATCCCTACACACCAGCCATGCAGCGCTATGTGAAGCGGCTCCACGAGGTGGGGCGCA
CAGAGCCCGAGCTGCTGGTGGCCACGCCTACACCCGCTACCTGGGTGACCTGTCTGGGGGCCAGGTGCTCAAAA
AGATTGCCCAGAAAGCCCTGGACCTGCCAGCTCTGGCGAGGGCCTGGCCTTCTTCACCTTCCCCAACATTGCCA
GTGCCACCAAGTTCAAGCAGCTCTACCGCTCCCGCATGAACTCCCTGGAGATGACTCCCGCAGTCAGGCAGAGGG
TGATAGAAGAGGCCAAGACTGCGTTCCTGCTCAACATCCAGCTCTTTGAGGAGTTGCAGGAGCTGCTGACCCATG
ACACCAAGGACCAGAGCCCCCTACGGGCACCAAGGGCTTCGCCAGCGGGCCAGCAACAAAGTGCAAGATTCTGCCC
CCGTGGAGACTCCCAGAGGGAAGCCCCCACTCAACACCCGCTCCCAGGCTCCGCTTCTCCGATGGGTCTTACAC
TCAGCTTCTGGTGGCGACAGTTGCTGTAGGGCTTTATGCCATGTGAATGCAGGCATGCTGGCTCCCAGGGCCAT
GAACTTTGTCCGGTGGAAAGGCCTTCTTCTAGAGAGGGAATTCTCTGGCTGGCTTCCTTACCGTGGGCACTGAA
GGCTTTCAGGGCCTCCAGCCCTCTCACTGTGTCCCTCTCTCTGGAAAGGAGGAAGGAGCCTATGGCATCTTCCCC
AACGAAAAGCACATCCAGGCAATGGCCTAACTTCAGAGGGGGCGAAGGGGTGAGCCCTGCCCTTCAGCATCCTC
AGTTCCTGCAGCAGAGCCTGGAAGACACCCTAATGTGGCAGCTGTCTCAAACCTCCAAAAGCCCTGAGTTTCAAG
TATCCTTGTGACACGGCCATGACCACTTCCCCGTGGGCCATGGCAATTTTACACAAACCTGAAAAGATGTTG
TGCTCTGTGTTTTTGTCTTATTTTGTGAGCCACTCTGTTCTGGCTCAGCCTCAAATGCAGTATTTTGTG
TGTTCTGTGTTTTTATAGCAGGGTTGGGGTGGTTTTTGAGCCATGCGTGGGTGGGAGGGAGGTGTTTAACGGC
ACTGTGGCCTTGGTCTAACTTTTGTGTGAAATAATAACAACATTGTCTG

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FIGURE 6021

MERPQPD SMPQDLSEALKEATKEVHTQAENAEFMRNFQKGQVTRDGFKLVMASLYHIYVALEEEIERNKESPVFA
PVYFPEELHRKAALEQDLAFWYGPRWQEVIPYTPAMQRYVKRLHEVGRTEPELLVAHAYTRYLGDLSGGQVLKKI
AQKALDLPSSGEGLAFFTFPNIASATKFKQLYRSRMNSLEMPAVRQRVIEEAKTAFLLNIQLFEELQELLTHDT
KDQSPSRAPGLRQRASNKVQDSAPVETPRGKPPLNTRSQAPLLRWVLTLSFLVATVAVGLYAM

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FIGURE 6022

TTTTCCCGCGAAACTCGGCGGCTGAGCGTGGAGGTTCTTGCTCCCCCTGGTTTGTGAAGTGCGGAAAACCAGAGG
CGCAGTCAATGTCGGGATTTCGACGATCCTGGCATTCTTCTACAGCGACAGCTTCGGGGGCGACGCCCAGGCCGACGA
GGGGCAGGCCCGCAAATCGCAGCTGCAGAGGCGCTTCAAGGAGTTTCCTGCGGCAGTACCGAGTGGGCACCGACCG
CACGGGCTTCACCTTCAAATACAGGGATGAACTCAAGCGGCATTACAACCTGGGGGAGTACTGGATTGAGGTGGA
GATGGAGGATCTGGCCAGCTTTGATGAGGACCTGGCCGACTACTTGTACAAGCAGCCAGCCGAGCACCTGCAGCT
GCTGGAGGAAGCTGCCAAGGAGGTAGCTGATGAGGTGACCCGGCCCCGGCCTTCTGGGGAGGAGGTGCTCCAGGA
CATCCAGGTCAATGCTCAAGTCGGACGCCAGCCCTTCCAGCATTTCGTAGCCTGAAGTCGGACATGATGTACACCT
GGTGAAGATCCCTGGCATCATCATCGCGGCCCTCTGCGGTCCGTGCCAAGGCCACCCGCATCTCTATCCAGTGCCG
CAGCTGCCGCAACACCCTCACCAACATTGCCATGCGCCCTGGCCTCGAGGGCTATGCCCTGCCCAGGAAGTGCAA
CACAGATCAGGCTGGGCGCCCCAAATGCCCATTTGGACCCGTACTTCATCATGCCCCGACAAATGCAAATGCGTGGA
CTTCCAGACCCTGAAGCTGCAGGAGCTGCCTGATGCAGTCCCCACGGGGAGATGCCCAGACACATGCAGCTCTA
CTGCGACAGGTACCTGTGTGACAAGTTCGTCCCTGGGAACAGGGTTACCATCATGGGCATCTACTCCATCAAGAA
GTTTGGCCTGACTACCAGCAGGGGCCGTGACAGGTTGGGCGTGGGCATCCGAAGCTCCTACATCCGTGTCTCTGGG
CATCCAGGTGGACACAGATGGCTCTGGCCGCAGCTTTGCTGGGGCCGTGAGCCCCCAGGAGGAGGAGGAGTTCCG
TCGCTGGCTGCCCTCCCAAATGTCTATGAGGTCACTTCCAAGAGCATCGCCCCCTCCATCTTTGGGGGCACAGA
CATGAAGAAGGCCATTGCCTGCCTGCTCTTTGGGGGCTCCCGAAAGAGGCTCCCTGATGGACTTACTCGCCGAGG
AGACATCAACCTGCTGATGCTAGGGGACCCTGGGACAGCCAAGTCCAGCTTCTGAAGTTTGTGGAGAAGTGTTTC
TCCCATTTGGGGTATACACGTCTGGGAAAGGCAGCAGCGCAGCTGGACTGACAGCCTCGGTGATGAGGGACCCTTC
GTCCCGGAATTTTCATCATGGAGGGCGGAGCCATGGTCTGGCCGATGGTGGGGTCGTCTGTATTGACGAGTTTGA
CAAGATGCGAGAAGATGACCGTGTGGCAATCCACGAAGCCATGGAGCAGCAGACCATCTCTATCGCCAAGGCTGG
GATCACCAACCACCCTGAACCTCCGCTGCTCCGTCTGGCTGCTGCCAACTCAGTGTTTCGGCCGCTGGGATGAGAC
GAAGGGGGAGGACAACATTGACTTTCATGCCCAACCATCTTGTTCGCGCTTCGACATGATCTTCATCGTCAAGGATGA
GCACAATGAGGAGAGGGATGTGATGCTGGCCAAGCATGTCACTACTCTGCACGTGAGCGCACTGACACAGACACA
GGCTGTGGAGGGCGAGATTGACCTGGCCAAGCTGAAGAAGTTTATTGCCTACTGCCGAGTGAAGTGTGGCCCCCG
GCTGTGAGCAGAGGCTGCAGAGAACTGAAGAACCCTACATCATCATGCGGAGCGGGGCCCCGTCAGCACGAGAG
GGACAGTGACCGCCGCTCCAGCATCCCCATCACTGTGCGGCAGCTGGAGGCCATTGTGCGCATCGCGGAAGCCCT
CAGCAAGATGAAGCTGCAGCCCTTCGCCACAGAGGCAGATGTGGAGGAGGCCCTGCGGCTCTTCCAAGTGTCCAC
GTTGGATGCTGCCTTGTCCGGTACCCTGTGAGGGGTGGAGGGCTTACCAGCCAGGAGGACCAGGAGATGCTGAG
CCGCATCGAGAAGCAGCTCAAGCGCCGCTTTGCCATTGGCTCCAGGTGTCTGAGCACAGCATCATCAAGGACTT
CACCAAACAGAAATACCCGGAGCACGCCATCCACAAGGTGCTGCAGCTCATGCTGCGGCGCGGGCAGATCCAGCA
TCGCATGCAGCGCAAGGTTCTCTACCGCCTCAAGTGAAGTGCAGCGCCCTCACTGGACTCATGGACTCGCCACGC
CTCGCCCCCTCTGCGCTGCCTGCCATTGACAATGTTGCTGGGACCTTGCCTCCCCACTGCAGCCCTCGAACTT
CCCAGGCACCCTCCTTTCTGCCCCAGAGGAAGGAGCTGTAGTGTCTGCTGCTGCTGCGGCGCCGCTCTAGCGC
GGTTCTGGGAAGTGTGCTTTTGGCATCCGTTAATAATAAAGCCACGGTGTGTTTCAGGT

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FIGURE 6023

MSGFDDPGIFYSDSFGGDAQADEGQARKSQLQRRFKEFLRQYRVGTDRTGFTFKYRDELKRHYNLGEYWIEVEME
DLASFDEDLADYLYKQPAEHLQLLEEAKEVADEVTRPRPSGEEVLQDIQVMLKSDASPSSIRSLKSDMMSHLVK
IPGIIIAASAVRAKATRISIQCRCRNTLTNIAMRPGLEGYALPRKCNTDQAGRPKCLDPYFIMPDCKKCVDFQ
TLKLQELPDVPHGEMPRHMQLYCDRYLCDKVVPGNRVTIMGIYSIKKFGLTTSRGRDRVGVGIRSSYIRVLGIQ
VDTDGSGRSFAGAVSPQEEEEFRRLAALPNVYEVISKSIAPSIFFGGTDMKKAIACLLFGGSRKRLPDGLTRRGI
NLLMLGDPGTAKSQLLKFEKCSPIGVYTSKGKSSAAGLTASVMRDPSSRNFIEMEGGAMVLADGGVVCIDEFDKM
REDDRVAIHEAMEQQTISIAGITTTLSRCSVLAAANSVFGRWDETKGEDNIDFMP TILSRFDMIFIVKDEHN
EERDVMLAKHVITLHVSALTQTQAVEGEIDLAKLKKFIAYCRVKCGPRLSAEAAEKLKNRYIIMRSGARQHERDS
DRRSSIPITVRQLEAIVRIAEALSKMKLQPFATEADVEEALRLFQVSTLDAALSGTSLSGVEGFTSQEDQEMLSR
EKQLKRRFAIGSQVSEHSIIKDFTKQKYPEHAHVKVLQMLRRGEIQHRMQRKVLYRLK

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FIGURE 6024

GAGGTGCTGGGGAGCAGCGTGTGCTGTGCTTGATTGTGAGCTGCTGGGAAGTTGTGACTTTTCATTTTACCTTT
CGAATTCCTGGGTATATCTTGGGGGCTGGAGGACGTGTCTGGTTATTATATAGGTGCACAGCTGGAGGTGAGATC
CACACAGCTCAGACCAGCTGGATCTTGCTCAGTCTCTGTGAGAGGAAGATCCCTTGGAGGAGGCCCCGAGCGAC
ATGGAGGGAGCTGCTTTGCTGAAAATCTTTGTCGTCTGCATCTGGGTGCAGCAAACCATCCAGGCTGGACAGTG
GCTGGACAGTTCCAAGAAAAGAAACGCTTCACTGAAGAAGTCATTGAATACTTCCAGAAGAAAGTTAGCCCAGTG
CATCTGAAAATCCTGCTGACTAGCGATGAAGCCTGGAAGAGATTTGTGCGTGTGGCTGAATTGCCAGGGAAGAG
GCAGATGCTCTCTATGAAGCTCTGAAGAATCTTACACCATATGTGGCTATTGAGGACAAAGACATGCAGCAAAAA
GAACAGCAGTTTAGGGAGTGGTTTTTGAAGTTTCCCTCAATCAGATGGAAGATTCCAGGAGTCCATAGAAAGGCT
TCGTGTCATTGCAAAATGAGATTGAAAAGGTCCACAGAGGCTGCGTCATCGCCAATGTGGTGTCTGGCTCCACTGG
CATCTGTCTGTGCTATTGGCGTTATGTTGGCACCATTACAGCAGGGCTGAGCCTGAGCATTACTGCAGCTGGGGT
AGGGCTGGGAATAGCATCTGCCACGGCTGGGATCGCCTCCAGCATCGTGGAGAACACATACACAAGGTCAGCAGA
ACTCACAGCCAGCAGGCTGACTGCAACCAGCACTGACCAATTGGAGGCATTAAGGGACATTCTGCGTGACATCAC
ACCCAATGTGCTTTCTTTTGCACTTGATTTTGACGAAGCCACAAAATGATTGCGAATGATGTCCATACACTCAG
GAGATCTAAAGCCACTGTTGGACGCCCTTTGATTGCTTGGCGATATGTACCTATAAATGTTGTTGAGACACTGAG
AACACGTGGGGCCCCACCCGGATAGTGAGAAAAGTAGCCCGGAACCTGGGCAAGGCCACTTCAGGTGTCCTTGT
TGTGCTGGATGTAGTCAACCTTGTGCAAGACTCACTGGACTTGACAAGGGGGCAAATCCGAGTCTGCTGAGTC
GCTGAGGCAGTGGGCTCAGGAGCTGGAGGAGAATCTCAATGAGCTCACCCATATCCATCAGAGTCTAAAAGCAGG
CTAGGCCCAATTGTTGCGGGAAGTCAGGGACCCCAAACGGAGGGACTGGCTGAAGCCATGGCAGAAGAAGCTGGA
TTGTGAAGATTTTCATGGACATTTATTAGTTCCCAAATTAATACTTTTATAATTTCTATGCCTGTCTTTACCGC
AATCTCTAAACACAAATTTGTGAAGATTTTCATGGACACTGATCACTTCCCAAATCAATACCCTTGTGATTTCTTAT
GCCTGTCTTTACTTTAATCTCCTAATCCTGTGCTGAGCTGAGGAGGATGTATGTCACCTCAGGACCATGTGATAATTG
CGTTAACTGCACAAATTTGTAGAGCATGTGTGTTTGAACAATATGAAATCTGGGCACCTTGAAAAAGAACAGGAT
AACAGCAATTTGTCAGGGAATAAGAGAGATAACCTTAAACTCTGACCAACAGTGAGCCTGGTGGAACAGAGTCAT
ATTTCTCTCTTTCAAAAGCAAATGGGAGAAATATCGCTGAATCTTTTTCTCAGCAAGGAACATCCCTGAGAAA
GAGAATGCACCCCTGAGGGTGGGTCTATAAATGGCCTCCTTGGGTGTGGCCATCTTCTATGGTCGAGACTGTAGG
GATGAAATAAACCCAGTCTCCCATAGCGCTCCAGGCTTATTAGGAAGAGGAAATTCGCCCTAATAAATTTTG
GTCAGACCGGTTGCTCTCAAAACCCTGTCTCCTGATAAGATGTTATCAATGACAATGGTGCCGAAACCTCATT
GCAATTTTAATTTCTCCCGGTCTGTGTTTCTGTGATCTCGCCCTGCCTCCACTTGCCTTGTGATATTCTATTA
CCTTGTGAAGTAGGTGATCTTTGTGACCCACACCCACACCCTATTATACACTCCCTCCCTTTTGAAAGTCCCT
AATAAAAACCTTGCTGGTTTTGCGGCTTGTGAGGCATCACGGAACCTACCGATGTGTGATGTCTCCCTGGACACC
TAGCTTTAAATTTCTCTCTTTTGTACTCTGTGCCTTTATTTCTCAAACCGGCCAACACTTAGGGAAAATAGAAA
AGAACCTACGTGACCATCGGGGCAGGTTCCCGATACCCAATGACCCAGAGCAGTGAGCCACCAGGGAAGGTG
AGCCAGACACAGGCCGGGACAAAACGCAGACATTTTTTAGGGGAATAAAGAGGGCGAGGTAAAGTTTATGGAAC
CAGTGTTAGGAACCTTGGCATCTGTAGCTGAGCACAGCAGGGGAGGGTTACTCAAGATGGCAAGTGCGCCAAGG
AGAAGGCAGAAATGCTGGGGCCTGGAATAAGGGAGGAGAGGGGACTGGAGAGTGTGGGGAATGGAAGAAGCAGT
TTACTCTAGACTAAAGAGTATATTGGGGGAGGAAGAGAGGGAGGCACGTAGGAACAAGCAATGAGAAGACCAGGA
AAAGAAAAGAGCTGAAAATGGAGAAAGCCACAGTTAGAATGTTGGATACAGGAGAAGAAACAGCGGCTCCACTAA
AGACCCGCCCCCGGTTGGATGTCTTCCAAGAATGGAATCCTTCCCTGGTGATGGTCTCTACCCCTGTCTTACC
AGCATCCACTCTCCCTTGTCTCCCGGGGGTGTATCTGAGTCAGCCAGTGGCTTCTTGATGATGGTGGTGGTGGT
TGATGTGTGACAGGTCCCTTTAGGTTATTTAAGGGTGCATGTCCCTGCTTGAACCTGAAGGCCGGGTAAATGA
GCCATTTCCATGGTGCCAGCTGAGGACCAGGTGTCTCTGAGAATCCAAACATCCTGGAGAGTATCTGAGAACCA
ACCAAGTAAAGTCTCGTTGCTCATATATAGTAGACAAAGAGCCAGAAAATTAAGTGAAGAGCAGTTTAGACATT
GGGGGAGGCTGGATCTCTGAGCTGTCTTGCTGAGTGCCCTGTGTGTAAGTCCTAATAAAGCTTAGCTACTCGCCA

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FIGURE 6025A

ATGGCACAGCAAGCTGCCGATAAGTATCTCTATGTGGATAAAAACTTCATCAACAATCCGCTGGCCCAGGCCGAC
TGGGCTGCCAAGAAGCTGGTATGGGTGCCTTCCGACAAGAGTGGCTTTGAGCCAGCCAGCCTCAAGGAGGAGGTG
GGCGAAGAGGCCATCGTGGAGCTGGTGGAGAATGGGAAGAAGGTGAAGGTGAACAAGGATGACATCCAGAAGATG
AACCCGCCCAAGTTCTCCAAGGTGGAGGACATGGCAGAGCTCACGTGCCTCAACGAAGCCTCGGTGCTGCACAAC
CTCAAGGAGCGTTACTACTCAGGGCTCATCTACACCTATTTCAGGCCTGTTCTGTGTGGTTCATCAATCCTTACAAG
AACCTGCCCATCTACTCTGAAGAGATTGTGGAAATGTACAAGGGCAAGAAGAGGCACGAGATGCCCCCTCACATC
TATGCCATCACAGACACCGCCTACAGGAGTATGATGCAAGACCGAGAAGATCAATCCATCTTGTGCACTGGTGAA
TCTGGAGCTGGCAAGACGGAGAACACCAAGAAGGTTCATCCAGTATCTGGCGTACGTGGCGTCTCGCACAAAGAGC
AAGAAGGACCAGGGCGAGCTGGAGCGGCAGCTGCTGCAGGCCAACCCCATCTGGAGGCCTTCGGGAACGCCAAG
ACCGTGAAGAATGACAACTCCTCCCGCTTCGGCAAATTCATTGCGATCAACTTTGATGTCAATGGCTACATTGTT
GGAGCCAACATTGAGACTTATCTTTTGGAGAAATCTCGTGCTATCCGCCAAGCCAAGGAAGAACGGACCTTCCAC
ATCTTCTATTATCTCCTGTCTGGGGCTGGAGAGCACCTGAAGACCGATCTCCTGTTGGAGCCGTACAACAAATAC
CGCTTCTGTCCAATGGACACGTACCATCCCCGGGCAGCAGGACAAGGACATGTTCCAGGAGACCATGGAGGCC
ATGAGGATTATGGGCATCCCAGAAGAGGAGCAAATGGGCCTGCTGCGGGTCATCTCAGGGGTTCTTCAGCTCGGC
AACATCGTCTTCAAGAAGGAGCGGAACACTGACCAGGCGTCCATGCCCGACAACACAGCTGCCCAAAAGGTGTCC
CATCTCTTGGGTATCAATGTGACCGATTTACCAGAGGAATCCTCACCCGCGCATCAAGGTGGGACGGGATTAC
GTCCAGAAGGCGCAGACTAAAGAGCAGGCTGACTTTGCCATCGAGGCCTTGGCCAAGGCGACCTATGAGCGGATG
TTCGCTGGCTGGTGTGCTGCGCATCAACAAGGCTCTGGACAAGACCAAGAGGCAGGGCGCCTCCTTCATCGGGATC
CTGGACATTGCCGGCTTCGAGATCTTTGATCTGAACCTCGTTTGAGCAGCTGTGCATCAATTACACCAATGAGAAG
CTGCAGCAGCTCTTCAACCACACCATGTTTCATCTGGAGCAGGAGGAGTACCAGCGCAGGGGCTCGAGTGGAAAC
TTCATCGACTTTGGCCTCGACCTGCAGCCCTGCATCGACCTCATTGAGAAGCCAGCAGGCCCCCGGGCATCTCTG
GCCCTGCTGGACGAGGAGTGCTGGTTCCCCAAAGCCACCGACAAGAGCTTCGTGGAGAAGGTGATGCAGGATGAG
GGCACCCACCCCAAGTTCCAGAAGCCCAAGCAGCTGAAGGACAAAGCTGATTTCTGCATTATCCACTATGCCGGC
AAGGTGGATTACAAAGCTGACGAGTGCGTGATGAAGAACATGGATCCCCTGAATGACAACATCGCCACATGCTC
CACCAGTCTCTGACAAGTTTGTCTCGGAGCTGTGGAAGGATGTGGACCGCATCATCGGCCTGGACAGGTGGCC
GGCATGTGCGGAGACCGCACTGCCCGGGGCTTCAAGACGCGGAAGGGCATGTTCCGCATGTGGGGCAGCTTTAC
AAGGAGCAGCTGGCCAAGCTGATGGCTACGCTGAGGAACACGAACCCCAACTTTGTCCGCTGCATCATCCCCAAC
CACGAGAAGAAGGCCGGAAGCTGGACCCGCATCTCGTGCTGGACCAGCTGCGCTGCAACGGTGTCTCGAGGGC
ATCCGTATCTGCCGCCAGGGCTTCCCCAACAGGGTGGTCTTCCAGGAGTTTCGGCAGAGATATGAGATCCTGACT
CCAAACTCCATTCCCAAGGGTTTCATGGACGGGAAGCAGGCGTGCTGCTCATGATAAAAGCCCTGGAGCTCGAC
AGCAATCTGTACCGCATTGGCCAGAGCAAAGTCTTCTTCCGTGCCGGTGTGCTGGCCACCTGGAGGAGGAGCGA
GACCTGAAGATCACCGACGTATCATAGGGTTCCAGGCCTGCTGCAGGGGCTACCTGGCCAGGAAAGCATTTGCC
AAGCGGCAGCAGCAGCTTACCGCCATGAAGGTCTCCAGCGGAAGTGCCTGCTACCTGAAGCTGCGGAAGTGG
CAGTGGTGGCGGCTCTTACCAAGGTCAAGCCGCTGCTGCAGGTGAGCCGGCAGGAGGAGGAGATGATGGCCAAG
GAGGAGGAGCTGGTGAAGGTGAGAGAGAAGCAGCTGGCTGCGGAGAACAGGCTCACGGAGATGGAGACGCTGCAG
TCTCAGCTCATGGCAGAGAAATTGCAGCTGCAGGAGCAGCTCCAGGCAGAAACCGAGCTGTGTGCCGAGGCTGAG
GAGCTCCGGGCCCCGCTGACCGCCAAGAAGCAGGAATTAGAAGAGATCTGCCATGACCTAGAGGCCAGGGTGGAG
GAGGAGGAGGAGCGCTGCCAGCACCTGCAGGCGGAGAAGAAGAAGATGCAGCAGAACATCCAGGAGCTTGAGGAG
CAGCTGGAGGAGGAGGAGAGCGCCCGCAGAAGCTGCAGCTGGAGAAGGTGACCACCGAGGCGAAGCTGAAAAAG
CTGGAGGAGGAGCAGATCATCTGGAGGACCAGAACTGCAAGCTGGCCAAGGAAAAGAACTGCTGGAAGACAGA
ATAGCTGAGTTACACCAACCTCACAGAAGAGGAGGAGAAATCTAAGAGCCTCGCCAAGCTCAAGAACAAGCAT
GAGGCAATGATCACTGACTTGGAAGAGCGCCTCCGCAGGGAGGAGAAGCAGCGACAGGAGCTGGAGAAGACCCGC
CGGAAGCTGGAGGGAGACTCCACAGACCTCAGCGACCAGATCGCCGAGCTCCAGGCCAGATCGCGGAGCTCAAG
ATGCAGCTGGCCAAGAAAGAGGAGGAGCTCCAGGCCGCCCTGGCCAGAGTGGAAGAGGAAGCTGCCAGAAGAAC
ATGGCCCTCAAGAAGATCCGGGAGCTGGAATCTCAGATCTCTGAACCTCAGGAAGACCTGGAGTCTGAGCGTGCT
TCCAGGAATAAAGCTGAGAAGCAGAAACGGGACCTTGGGGAAGAGCTAGAGGCTCTGAAAACAGAGTTGGAGGAC
ACGCTGGATTCCACAGCTGCCAGCAGGAGCTCAGGTCAAAACGTGAGCAGGAGGTGAACATCCTGAAGAAGACC
CTGGAGGAGGAGGCCAAGACCCACGAGGCCAGATCCAGGAGATGAGGCAGAAGCACTCACAGGCCGTGGAGGAG

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FIGURE 6025B

CTGGCGGAGCAGCTGGAGCAGACGAAGCGGGTGAAAGCAAACCTCGAGAAGGCAAAGCAGACTCTGGAGAACGAG
CGGGGGGAGCTGGCCAACGAGGTGAAGGTGCTGCTGCAGGGCAAAGGGGACTCGGAGCACAAGCGCAAGAAAGTG
GAGGCGCAGCTGCAGGAGCTGCAGGTCAAGTTCAACGAGGGAGAGCGCGTGCGCACAGAGCTGGCCGACAAGGTC
ACCAAGCTGCAGGTGGAGCTGGACAACGTGACCGGGCTTCTCAGCCAGTCCGACAGCAAGTCCAGCAAGCTCACC
AAGGACTTCTCCGCGCTGGAGTCCCAGCTGCAGGACACTCAGGAGCTGCTGCAGGAGGAGAACC GGCGAGAAGCTG
AGCCTGAGCACC AAGCTCAAGCAGGTGGAGGACGAGAAGAATTCCCTCCGGGAGCAGCTGGAGGAGGAGGAGGAG
GCCAAGCACAACCTGGAGAAGCAGATCGCCACCTCCATGCCCAGGTGGCCGACATGAAAAAGAAGATGGAGGAC
AGTGTGGGGTGCTGGAAACTGCTGAGGAGGTGAAGAGGAAGCTCCAGAAGGACCTGGAGGGGCTGAGCCAGCGG
CACGAGGAGAAGGTGGCCGCCCTACGACAAGCTGGAGAAGACCAAGACGCGGCTGCAGCAGGAGCTGGACGACCTG
CTGGTGGACCTGGACCACCAGCGCCAGAGCGCTGCAACCTGGAGAAGAAGCAGAA GAAGTTTGACCAGCTCCTG
GCGGAGGAGAAGACCATCTCTGCCAAGTATGCAGAGGAGCGCGACCGGGCTGAGGCGGAGGCCCCGAGAGAAGGAG
ACCAAGGCTCTGTGCTGGCCCCGGGCCCTGGAGGAAGCCATGGAGCAGAAGGCGGAGCTGGAGCGGCTCAACAAG
CAGTTCGCGACGGAGATGGAGGACCTTATGAGCTCCAAGGATGATGTGGGCAAGAGTGTCCACGAGCTGGAGAAG
TCCAAGCGGGCCCTAGAGCAGCAGGTGGAGGAGATGAAGACGCAGCTGGAAGAGCTGGAGGACGAGCTGCAGGCC
ACCGAAGATGCCAAGCTGCGGTTGGAGGTCAACCTGCAGGCCATGAAGGCCAGTTCGAGCGGGACCTGCAGGGC
CGGGACGAGCAGAGCGAGGAGAAGAAGAAGCAGCTGGTCAGACAGGTGCGGGAGATGGAGGCAGAGCTGGAGGAC
GAGAGGAAGCAGCGCTCGATGGCAGTGGCCGCCCGGAAGAAGCTGGAGATGGACCTGAAGGACCTGGAGGCGCAC
ATCGACTCGGCCAACAAGAACC GGGACGAAGCCATCAAACAGCTGCGGAAGCTGCAGGCCAGATGAAGGACTGC
ATGCGCGAGCTGGATGACACCCGCGCCTCTCGTGAGGAGATCCTGGCCCAGGCCAAGAGAACGAGAAGAAGCTG
AAGAGCATGGAGGCCGAGATGATCCAGTTGCAGGAGGAAGTGGCAGCCGCGGAGCGTGCCAAGCGCCAGGCCAG
CAGGAGCGGGATGAGCTGGCTGACGAGATCGCCAACAGCAGCGGCAAAGGAGCCCTGGCGTTAGAGGAGAAGCGG
CGTCTGGAGGCCCGCATCGCCAGCTGGAGGAGGAGCTGGAGGAGGAGCAGGGCAACACGGAGCTGATCAACGAC
CGGCTGAAGAAGGCCAACC TGAGATCGACCAGATCAACACCGACCTGAACCTGGAGCGCAGCCACGCCCAGAAG
AACGAGAATGCTCGGCAGCAGCTGGAACGCCAGAACAAGGAGCTTAAGGTCAAGCTGCAGGAGATGGAGGGCACT
GTCAAGTCCAAGTACAAGGCCTCCATCACCGCCCTCGAGGCCAAGATTGCACAGCTGGAGGAGCAGCTGGACAAC
GAGACCAAGGAGCGCCAGGCAGCCTGCAAACAGGTGCGTCGGACC GAGAAGAAGCTGAAGGATGTGCTGCTGCAG
GTGGATGACGAGCGGAGGAACGCCGAGCAGTACAAGGACCAGGCCGACAAGGCATCTACCCGCTGAAGCAGCTC
AAGCGGCAGCTGGAGGAGGCCGAAGAGGAGGCCAGCGGGCCAACGCCTCCCGCCGGAAGTGCAGCGCGAGCTG
GAGGACGCCACTGAGACGGCCGATGCCATGAACCGCAAGTCAGCTCCCTAAAGAACAAGCTCAGGCGCGGGGAC
CTGCCGTTTGTGCTGCCCGCCGAATGGCCCGGAAGGCGCCGGGGATGGCTCCGACGAAGAGGTAGATGGCAAA
GCGGATGGGGCTGAGGCCAACC TGCCGAATAA

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FIGURE 6026

MAQQAADKYLVDKNFINNPLAQADWAAKKLVWVPSDKSGFEPASLKEEVGEEAIVELVENGKKVKVNKDDIQKM
NPPKFSKVEDMAELTCLNEASVLHNLKERYYSGLIYTYSGLFCVVINPYKNLPIYSEEIVEMYKGKKRHEMPPHI
YAITDTAYRSMMQDREDQSILCTGESGAGKTENTKKVIQYLAYVASSHKSKKDQGELERQLLQANPILEAFGNK
TVKNDNSSRFKGKIFIRINFDVNGYIVGANIETYLLEKSRAIROAKEERTFHIFYLLSGAGEHLKTDLLLEPYNKY
RFLSNGHVTIPGQQDKDMFQETMEAMRIMGIPEEEQMGLLRVISGVLQLGNI VFKKERNTDQASMPDNTAAQKVS
HLLGINVTDFTRGILTPIKVGGRDYVQKAQTKEQADFAIEALAKATYERMFRWLVLRLINKALDKTKRQGASFIGI
LDIAGFEIFDLNSFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIDLIEKPAGPPGIL
ALLDEECWFPKATDKSFVEKVMQEQQGTHPKFKQPKQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLNDNIATLL
HQSSDKFVSELWKDVDRIIGLDQVAGMSETALPGAFKTRKGMFRTVGQLYKEQLAKLMATLRNTNPNFVRCIIPN
HEKKAGKLDPHLVLDQLRCNGVLEGI RIRCGFPNRVVFQEFRQRYEILTPNSIPKGFMDGKQACVLMIKALELD
SNLYRIGQSKVFFRAGVLAHLEEEERDLKITDVIIGFQACCRGYLARKAFARQQQLTAMKVLQRNCAAYLKLRNW
QWWRLF TKVKP LLQVSRQEEEMMAKEEEELVKVREKQLAAENRLTEMETLQSQLMAEKLQLEQLQAETELCAEAE
ELRRLTAKKQEELEEICHDLARVEEEEEERCQHLOAEKKMQQNIQEELEEQLEEEESARQKLQLEKVTTEAKLKK
LEEEQIILEDQNCCLAKEKKLLEDRIAFTTNLTEEEESKSLAKLKNKHEAMITDLEERLRREEKQRQELEKTR
RKLEGDSTDLSQIAELQAQIAELKMQLAKKEEELQAALARVEEEAAQKNMALKKIRELESQISELQEDLESERA
SRNKA EKQKRD LGEELEALKTELED TLDSTAAQQLRSKREQEVN ILKKTLEEEAKTHEAQIQEMRQKHSQAVEE
LAEQLEQTKRVKANLEKAKQTLENERGELANEVKVLLQKGKGDSEHKRKKVEAQLQELQVKFNEGERVTELADKV
TKLQVELDNVTGLLSQSDSKSSKLT KDFSALESQLQDTQELLQEENRQKLSLSTKLQVEDEKNSFREQL EEEEE
AKHNLEKQIATLHAQVADMKKKMEDSVGCLETAEEVKRKLQKDLGLSQRHEEKVAAYDKLEKTKTRLQQLDDL
LVDLDHQRQSACNLKQKFDQLLAEKTI SAKYAEERDRAEAEAREKETKALSLARALEEAMEQKAELERLNK
QFRTEMEDLMSSKDDVGKSVHELEKSKRALEQQVEEMKTQLEEELEDELQATEDAKLRLEVN LQAMKAQFERDLQ
RDEQSEEKKQLVRQVREMAEAELEDERKQORMAVAARKKLEMDLKDLEAHIDSANKNRDEAIKQLRKLQAQMKDC
MRELD DTRASREEILAQAKENKKLKSMEAEMIQLQEELAAERAKRQAQQERDELADEIANSSGKALALEEKR
RLEARIAQLEEELEEEQGNTELINDRLKKANLQIDQINTDLNLSHAQKNENARQQLERQNKELVKLQEMEGT
VKSKYKASITALEAKIAQLEEQLDNETKERQAACKQVRRTEKKLKDVLQVDDERRNAEQYKDQADKASTRLKQL
KRQLEEAEEEAQRANASRRKLQRELE DATETADAMNREVSS LKNKLRRGDLPFVVP RRMARKGAGDGSDEEVDGK
ADGAEAKPAE

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FIGURE 6027

GAATTCGGCACGAGCTAACGCGGTCCCCGGCACGCACCATCTGTTGCCATCCCGCCGGCCGAGGCCATTGCAGA
TTTTGGAAGATGGCAAAGTTCATGACACCCGTGATCCAGGACAACCCCTCAGGCTGGGGTCCCTGTGCGGTTCCC
GAGCAGTTTCGGGATATGCCCTACCAGCCGTTTCAGCAAAGGAGATCGGCTAGGAAAGGTTGCAGACTGGACAGGA
GCCACATACCAAGATAAGAGGTACACAAATAAGTACTCCTCTCAGTTTGGTGGTGGAAAGTCAATATGCTTATTTT
CATGAGGAGGATGAAAGTAGCTTCCAGCTGGTGGATACAGCGCGCACACAGAAGACGGCCTACCAGCGGAATCGA
ATGAGATTTGCCAGAGGAACCTCCGCAGAGACAAAGATCGTCCGGAACATGTTGCAGTTCAACCTGCAGATCCTG
CCTAAGAGTGCCAAACAGAAAGAGAGAGAACGCATTTCGACTGCAGAAAAAGTTCCAGAAACAATTTGGGGTTAGG
CAGAAATGGGATCAGAAATCACAGAAACCCCGAGACTCTTCAGTTGAAGTTCGTAGTGATTGGGAAGTGAAAGAG
GAAATGGATTTTCCTCAGTTGATGAAGATGCGCTACTTGGAAGTATCAGAGCCACAGGACATTGAGTGTGTGGG
GCCCTAGAATACTACGACAAAGCCTTTGACCGCATCACACGAGGAGTGAGAAAGCCACTGCGGAGCATCAAGCGC
ATCTTCCACACTGTCACCACCACAGACGACCCGTGCATCCGCAAGCTGGCAAAAACCTCAGGGGAATGTGTTTGC
ACTGATGCCATCCTGGCCACGCTGATGAGCTGTACCCGCTCAGTGATTCTCTGGGATATTGTCGTCCAGAGAGTT
GGGTCCAAACTCTTCTTTGACAAGAGAGACAACTCTGACTTTGACCTCCTGACAGTGAGTGAGACTGCCAATGAG
CCCCCTCAAGATGAAGGTAATTCCTTCAATTCACCCCGCAACCTGGCCATGGAGGCAACCTACATCAACCACAAT
TTCTCCCAGCAGTGCTTGAGAATGGGGAAGGAAAGATACAACCTCCCAACCCAAACCCGTTTGTGGAGGACGAC
ATGGATAAGAATGAAATCGCCTCTGTTGCGTACCGTTACCGCAGGTGGAAGCTTGGAGATGATATTGACCTTATT
GTCCGTTGTGAGCACGATGGCGTCATGACTGGAGCCAACGGGGAAGTGTCTTCATCAACATCAAGACACTCAAT
GAGTGGGATTCCAGGCACTGTAATGGCGTTGACTGGCGTCAGAAGCTGGACTCTCAGCGAGGGGCTGTCATTGCC
ACGGAGCTGAAGAACAACAGCTACAAGTTGGCCCGGTGGACCTGCTGTGCTTTGCTGGCTGGATCTGAGTACCTC
AAGCTTGGTTATGTGTCTCGGTACCACGTGAAAGACTCCTCACGCCACGTCAFCCTAGGCACCCAGCAGTTCAAG
CCTAATGAGTTTGCCAGCCAGATCAACCTGAGCGTGGAGAATGCCTGGGGCATTTTACGCTGCGTCATTGACATC
TGCATGAAGCTGGAGGAGGGCAAATACCTCATCTCAAGGACCCCAACAAGCAGGTCATCCGTGTCTACAGCCTC
CCTGATGGCACCTTCAGCTCTGATGAAGATGAGGAGGAAGAGGAGGAGGAAGAAGAGGAAGAAGAAGAGGAAGAA
ACTTAAACCAGTGATGTGGAGCTGGAGTTTGTCTTCCACCGAGACTACGAGGGCCTTTGATGCTTAGTGGAATG
TGTGTCTAACTTGCTCTCTGACATTTAGCAGATGAAATAAAATATATATCTGTTTAGTCTTTTAAAAAAAAAAAA
AAAAAA

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FIGURE 6028

MAKFMTFVIQDNPSGWGPCAVPEQFRDMPYQPFSGDRLGKVADWTGATYQDKRYTNKYSSQFGGGSQYAYFHEE
DESSFQLVDTARTQKTAYQRNRMRFQARNLRDCKDRRNMLOFNLOILPKSAKQKERERIRLQKKFQKQFGVRQKW
DQKSQKPRDSSVEVRSDWEVKEEMDFPQLMKMRYLEVSEPQDIECCGALEYDYDKAFDRITRSEKPLRSIKRIFH
TVTTTDDPVIRKLAKTQGNVFATDAILATLMSCSTRSVYSWDIVVQRVGSKLFFDKRDNSDFDLLTVSETANEPPQ
DEGNSFNSPRNLAMEATYINHNFSQQCLRMGKERYNFPNPNPFVEDDMDKNEIASVAYRYRRWKLGDDIDLIVRC
EHDGVMTGANGEVSFINIKTLNEWDSRHCNGVDWRQKLDSQRGAVIATELKNNSYKLARWTCCALLAGSEYKLG
YVSRVHVKDSSRHVILGTQQFKPNEFASQINLSVENAWGILRCVIDICMKLEEGKYLILKDPNKQVIRVYSLPDG
TFSSDEDEEEEEEEEEEEEEET

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FIGURE 6029

GGGGGGCGGGAGGAGGGGACAGCTGCGGGCGCGGGGAGGGGGCGCCGCGCGGGGGCCATGGCGGAGCCAGGA
AGCCGGGAGTCCGAGACCCGGGCCCCGAGCCCCGAGTGTGCGCCGCCATGGCTTCGCCGCAGCTCTGCCGCGCGCTG
GTGTGCGCGCAATGGGTGGCGGAGGCGCTGCGGGCCCCGCGCGCTGGGCAGCCTCTGCAGCTGCTGGACGCCTCC
TGGTACCTGCCGAAGCTGGGGCGCGACGCGCGACGCGAGTTTCGAGGAGCGCCACATCCCGGGCGCCGCTTTCTTC
GACATCGACCAGTGCAGCGACCGCACCTCGCCCTACGACCACATGCTGCCCGGGGCGGAGCATTTCGCGGAGTAC
GCAGGCCGCCCTGGGCGTGGGCGCGGCCACCCACGTCGTGATCTACGACGCCAGCGACCAGGGCCTCTACTCCGCC
CCGCGCGTCTGGTGGATGTTCCGCGCCTTCGGCCACCACGCCGTGTCACTGCTTGATGGCGGCCTCCGCCACTGG
CTGCGCCAGAACCTCCCGCTCAGCTCCGGAAGAGCCAACTGCTCCCGCCGAGTTCCGCGCTCAGCTCGACCCC
GCCTTCATCAAGACCTACGAGGACATCAAGGAGAACCTGGAATCCCGGCGCTTCAGGTGGTGGACTCCCGAGCC
ACTGGCAGGTTCCGCGGCACCGAGCCCCGAGCCCCGAGACGGCATTGAACCTGGCCACATCCCAGGTACCGTGAAC
ATCCCCCTTCACAGACTTCCTGAGCCAGGAGGGGCTGGAGAAGAGCCCTGAGGAGATCCGCCATCTGTTCCAGGAG
AAGAAAGTGGACCTGTCTAAGCCACTGGTGGCCACGTGTGGCTCTGGCGTCACAGCCTGCCACGTGGCACTAGGG
GCCTACCTCTGCGGCAAGCCAGACGTGCCCATCTACGATGGCTCCTGGGTGGAGTGGTACATGCGCGCCCCGGCCC
GAGGATGTCTCTCAGAGGGCCGGGGGAAGACCCACTGAAGCTGGGCAGGACACAGGCGAGCTCAGGTGATGCCG
GCCACCAGCAATGCCTGGCCTGGTAGCTCCGCTTCTGCTTTCACCAAGAGAGTGTTTCTTCACTCAACTCAGGTG
GCATTTGGGGTGACATCTCAAAGGCCAGGAATTCCGTTGACTTGTTGGCTGCCAGTAGGGGCGGGAGGAAAGGCG
GAGGCGAGCCCTGGAGGAGGGAGGCCACAACCTCCGAGCTGCCACCTGGTGCTGAGCTGGGGCCCCGCCTCCTTT
CTGTTTTATTTTGGAGGAAATAAAATAACCAAGTGATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6030

MASPQLCRAVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAFFDIDQCSDRTSPYDHM
LPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLDGGLRHWLRQNLPLSSGKSQPA
PAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSDRATGRFRGTEPEPRDGIIEPGHIPGTVNIPFTDFLSQEGLEKS
PEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVP IYDGSWVEWYMRARPEDVISEGRGKTH

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FIGURE 6031

GCGACTCTCCCGGGCTGCCAGCCGGGACGCGCGGCCGCCGCTGCAGACGACGAGTCCGCCCTCGTCCCGCGC
CCCCGGGGCTCGCGGAGCCAGGTCTCCACCTCTGGGCAGGAGAGTTGCCGACCACCTCGGGGGTGCTTTCTCTGC
GCTTGAACATCTATAGCTGCTTCTGAGGGGCTGGGAGCCGGGCCCCCTGGGAGAGACGAGCCATGAACCCCCACA
GCCTCTGCATTGTTGGGGACCTCACCTTAGGAGAGTGCCATTTACAGCTTCCGCCAGGGCAAAGGAGCTGAGCAGCC
ATCCCAAGCCCAGCCCACCTCCCTCCCCGGCCCCCTGGTAGGCATGGACTAGCAGCTGTGAGCAGCCAGAGCTGA
TGCCCCGGCCCCAGGGGGGCAGAGGCGCCGCCACCATGAGCCTGGGCAAGCTCTCGCCTGTGGGCTGGGTGTCCA
GTTACAGGGAAAGAGGCGGCTGACTGCAGACATGATCAGCCACCCACTCGGGGACTTCCGCCACACCATGCATG
TGGGCCGTGGCGGGGATGTCTTCGGGGACACGTCCCTTCCTCAGCAACCACGGTGGCAGCTCCGGGAGCACCCATC
GCTCACCCCGCAGCTTCCTGGCCAAGAAGCTGCAGCTGGTGCAGGAGGTGGGGGCGCCCCCGGAGGATGGCAT
CTCCCCCTGCACCCTCCCCGGCTCCACCGGCCATCTCCCCCATCATCAAGAACGCCATCTCCCTGCCCCAGCTCA
ACCAGGCCGCTACGACAGCCTCGTGGTTGGCAAGCTCAGCTTCGACAGCAGCCCCACAGCTCCACGGACGGCC
ACTCCAGCTACGGCCTGGACTCTGGGTTCTGCACCATCTCCCGCCTGCCCCGCTCGGAAAAGCCGCATGACCGAG
ACGGGGATGGTTTCCTTCCCCCTCGAGCCCGGGCTTCGCCGCTCTGACTCTCTCTTGTCTTCCGCCTGGACCTCG
ACCTTGGGCCCTCACTCCTCAGCGAGCTGCTAGGGGTCATGAGCCTCCAGAAAGCCCCCTGCAGCTGAGACTCCAG
CCCCGCTGCAAACCCCCCAGCCCCCTACTGCAAACCCACGGGTCTCTGCTGCAAACCCCCCAGCCACTACTGCAA
ACCCCCCAGCGCTGCTGCAAACCCCTCAGCACCTGCCGCAACCCCCACGGGTCTGCTGCAAATCCCCCAGCCC
CTGCCGCAAGCTCCACACCCCATGGACACTGTCCCAATGGGGTAACAGCTGGGTTGGGCCCAGTGGCTGAGGTGA
AGTCCAGCCCAGTGGGAGGGGGTCCCCGAGGACCTGCTGGCCCTGCCCTCGGCAGGCACTGGGGAGCAGGCTGGG
ATGGCGGCCACCACTACCCAGAGATGGATGCGCGGCAGGAGCGGGTGGAGGTGCTGCCCCAAGCCCGGGCCTCCT
GGGAGAGCCTGGACGAAGAGTGGAGGGCGCCCCAGGCAGGCAGCAGGACCCAGTGCCAGCACAGTGCAAGCAA
ACACCTTTGAATTTGCGGATGCTGAGGAGGATGATGAGGTCAAGGTGTGAGGGGCTGGGGCACGGTCCCAGGGCC
CCACCTAGGTGCAGAGCCGGCCCCCTACCTAACAGCTGGTTCTTACCAGACCGGAGAGGGGAGAAGTCATGTTGC
CCCTAAACCCCTCCCCACCTCTGCAGGACAGACATGGGAGGGAGGACAGGGAAGGCCAGGCTTGCTCTGGGACTT
TTATGCTCCAGAGGGCCTGCCAACTGACCACCTCCCCGACTGCCACTCTGGACCTAATAGCTGTTTCCTTAGG
CCCCACTCCATGCCACCCCCACCAGCTGGAGGACCCAGCCTCACAGTGTGTCTTTGTGCCAGACCAAGCGGGCC
GTGGGGGGTGGGGGGCAGGGAGTGTACCACACAGGGCCATTGTCTACCTCCCAAAGGGACCGCCTGCCCCCAGC
TCATCCCAGAGCGTCCCTGCTGCAACCCCTGACAGCCGTCTCCAGGCCGCTTCCCCAACATCCCCGCCCCAGCCT
CCCTCTTACCCAGAAAGGTGAGGTATGACCTCCCGGGGAGGAATCCACCTGCCTGTATACCCAGACTTGCT
CTGGGGCCTGATTAAATAAGGCTGTTTTGAT

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GGGGGCCGGTGGCGGATGGAGAGCCCGCATGGAGCCGGAGACTCTGGAGGCGCGAATCAATAGAGCCACGAACCCCTG
 CTGAACAAGGAGCTCGACTGGGCCAGCATCAACGGCTTCTGCGAGCAGCTCAACGAGGACTTTGAGGGGCCCTCCA
 CTCGCCACCCGGCTGCTGGCCCAAGATCCAGTCCCCACAGGAGTGGGAGGCGATCCAGGCCCTTGACGGTGCTG
 GAAACATGCATGAAGAGCTGCGGCAAGCGTTCCACGACGAAGTGGGCAAGTTCCGCTTTCTCAACGAGCTCATC
 AAGGTCGTGTCTCCCAAGTATCTGGGCTCTCGGACATCGGAGAAGGTGAAGAACAAGATCTTGAGACTCCTCTAC
 AGCTGGACAGTGGGCCTGCCCGAGGAGGTGAAAAATCGCAGAGGCCCTACCAGATGCTAAAGAAGCAGGGGATTGTA
 AAGTCCGACCCCAAGCTTCCAGATGACACTACCTTTCCCTTCTCTCCACGGCCGAAGAATGTGATCTTTGAA
 GATGAGGAGAAAATCCAAGATGCTGGCCCGCTGCTGAAGAGCTCCCATCCCGAAGACCTCCGCGCAGCCAATAAG
 CTCATCAAAGAGATGGTGCAGGAGGACCAGAAGCGGATGGAGAAGATCTCGAAGAGGGTGAATGCCATCGAGGAG
 GTGAACAACAATGTGAAACTGCTCACGGAGATGGTGATGAGCCACAGCCAGGGCGGCGCAGCAGCTGGCAGCAGC
 GAGGACCTCATGAAGGAACGTACCAGCGCTGTGAGCGGATGCGGGCCACGCTCTTCCGACTGGCGAGTGACACA
 GAGGACAATGATGAGGCCTTAGCGGAGATCCTGCAGGCCAATGACAACCTCACCCAGGTGATCAACCTGTATAAG
 CAGCTGGTGCGGGGTGAGGAGGTCAACGGTGATGCCACAGCCGGCTCCATCCC TGGGAGCACCTCGGCCCTGCTG
 GATCTCTCAGGCC TGGATCTCCCGCTGCGGGCACCACCTACCCAGCTATGCCACCCGCCCTGGCGAGCAGGCC
 AGCCCTGAGCAGCCCAGTGCCTCAGTTTCCCTGCTTGACGACGAGCTCATGTCTCTGGGCC TCACTGACCCACA
 CCCCCCTT CAGGCCCAAGCCTGGATGGTACCGGATGGAACAGCTTCCAGTCGTCGGATGCCACTGAGCCCCCAGCC
 CCTGCTCTGGCCCAGGCCCCCACTATGGAAAGCCGACCCCCAGCGCAGACATCCC TGCCAGCAAGCAGCGGTCTG
 GACGACCTAGACCTCCTGGGGAAGACCTCCTGCAGCAGTCGCTGCCCCCGGAATCCCAGCAAGTGCGGTGGGAG
 AAGCAGCAGCCAACCCCCCGGCTCACACTCCGGGACCTGCAGAATAAGAGCAGCAGCTGCAGCTCCCCCAGCTCC
 AGCGCCACCAGCCTTCTCCACACCGTGTCCCCCAGAGCCCCCAGGCCCTCCGCAGCAGCCCGTACCAACCGAGCTC
 TCACTGGCCAGCATCACTGTGCCCTTGGAGTCCATCAAACCCAGCAACATCCTGCCCGTGACTGTGTATGACCAG
 CACGGCTTCCGCATCCTCTTCCATTTTGCCCCGGGACCCACTGCCAGGGCGCTCCGACGTGCTGGTGGTGGTGGTT
 TCCATGCTGAGCACCGCCCCCAGCCCATCCGCAACATCGTGTTCCAGTCAGCTGTCCCCAAGGTTATGAAGGTG
 AAGCTGCAGCCACCCTCGGGCACGGAGCTGCCAGCTTTTAACCCCATCGTCCACCCCTCAGCAATCACCCAGGTG
 CTGCTGCTTGCCAACCCCCAGAGGAGAAGGTTTCGCCTCCGCTACAAGCTCACCTTCACCATGGGTGACCAGACC
 TACAACGAGATGGGGGATGTGGACCAGTTCCCCCCACCTGAAACCTGGGGTAGCCTCTAGAACAGAGGGGCTGGG
 GAGAGGAAGGGGCAGAGGGACCGGTCACTGTCCAGCCTGGAGGGAGGCATTGGTGGCCAAGGACACCCCTTGTGTG
 CCAATGGCCATTACCCCCAGGCCCTGGTGTCTCTCCCCACACCCCTGTAGGCCTCAAGTGACTCTTCCCCCTCCT
 GCTCCGGCCCCGCCCTGCTGAGCCAAACCCAGTAGGAGGCTGGGCC TGGGTTGTGCCGCTGGGGTCTCCATCA
 CCGGGACCTGGAGAGGGAGGGGCTGTGTAGCCTTGGGAAGAACTTGGGTCA TGGGGAGGAAGCACAGCTGT TGGGG
 AAGGGCCAGGACCTCAGGCCAGCCCCAACCCAGCTGGGGTGGGGTCTTCCCACCTGTCTCTTATGCCTTATG
 GGAAGGCCCAGCCATAACTCGGGGGCCATGCTGGAGCTGGGGACCAGCTTAGGCCTCCTCCATAGGAACCCAGTG
 ACTGGGGGGTGACGCCATACCCCCAGCTATTTCGACTCTGGTGTGTGGTTTGACTCTGCTTTTCTTCCGGATTG
 CCCATTGGTTCACAGCCTCAGGGGGCCAGGCTGGGGGAACCTACCTAGGCCGTACTCCTGGGGGTTTCCCTTTG
 CCAATGGGGCCCCCTGAGGGAGCTG TGGGGGCTCAAGGGTAATGCCAGAGGCCCATGGCCCCAGCGAGGGGCTGTG
 GGCACCTAGAGTTCTCGGTGTGTCTCCTTATTGCTATGGCCCTGCTG TGGGGCTCCTATGGGTGTCTTACGTCTG
 TCCATCCATCTGTCCGTGGTGCAAGTGGGGTCACTGTGTGAGTGAGAGCAGGAGTATTTATGAAAATAAACCGT
 CGTTTTTCTGGAAAAA

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FIGURE 6033

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEW EAIQALT VLETCMK
SCGKRFHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQMLKKQGIVKSDPK
LPDDTTFFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKRMEKISKRVNAIEEVNNNV
KLLTEMVM SHSQGGAAAGSSEDLMKELYQRCERMPTLFRLASDTEDNDEALAEILQANDNL TQVINLYKQLVRG
EEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTY PAMPTRPGEQASPEQPSASVSLDDELMSLGLSDPTPPSGP
SLDGTGWNSFQSSDATEPPAPALAQAPSME SRPPAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQOPT
PRLTLRDLQNKSSSCSSPSSSATSLLHTVSPEPPRPPQQPVPTELSLASITVPLESIKPSNLPVTYDQHGFR I
LFHFARDPLPGRSDVLVVVVSMLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELP AFNP IVHPSAITQVLLLAN
PQKEKVR LRYKLTF TMGDQTYNEMGDVDQFPPPETWGS L

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[illegible]

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FIGURE 6035

MAESFKELDPDSSMGKALEMSCAIONQLARILAEFEMTLERDVLQPLSRLSEEELPAILKHKKSLOKLVS DWNTL
KSRLSQATKNSGSSQGLGGSPGSHSHTTMANKVETLKEEEEELKRKVEQCRDEYLADLYHFVTKEDSYANYFIRL
LEIQADYHRRSLSSLDTALAELRENHGQADHSPSMTATHFPRVYGVSLATHLQELGREIALPIEACVMMLLSEGM
KEEGLFRLAAGASVLKRLKQTMASDPHSLEEFCSDPHAVAGALKSYLRELPEPLMTFDLYDDWMRAASLKEPGAR
LQALQEVCSRLPPENLSNLRYLMKFLARLAEEQEVNKMTPSNIAIVLGPNLLWPPEKEGDQAQLDAASVSSIQVV
GVVEALIQSADTLFPGDINFNVSGLESAVTLQDTVSDRLASEELPSTAVPTPATTAPAPAPAPAPAPALASAAT
KERTESEVPPRPASPKVTRSPPEAAPVEDMARRTKRPAPARPTMPPQVSGSRSSPPAPPLPPGSGSPGTPQAL
PRLVGSSSLRAPTVPPPLPPTPPQFARRQSRSPASPSASPGPASPSVLSNPAQVDLGAATAEGGAPEAISG
VPTPPAIPPQPRPRSLASETN

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FIGURE 6036

GGCACGAGGGCCGTGCCCCGCGGAGAGAGCGCGCGCGGGAGGCCGGCGGCCGGCCGGCTGCATCGCGCGCTGCGA
GAGGCTGCGCGGAGCGGCCCTGCGCGACGTGCTGGGCCGGGCGCAGGGGGTCTGTTCGACTGTGACGGGGTGCT
GTGGAACGGCGAGCGCGCCGTGCCGGGCGCCCCGGAGCTGCTGGAGCGGCTGGCGCGGGCCGGCAAGGCGGCTCT
GTTTGTGAGCAACAACAGCCGGCGCGCGCGGCCCGAGCTGGCCCTGCGCTTCGCGCGCCTCGGCTTCGGGGGGCT
GCGCGCCGAGCAGCTCTTCAGCTCCGCGCTGTGCGCCGCGCGCCTGCTGCGCCAGCGCCTGCCCGGGGCTCCGGA
CGCGCCGGGCGCCGTGTTCTGTGCTGGGCGGCGAGGGGCTGCGCGCCGAGCTGCGCGCCGCGGGGCTGCGCCTGGC
CGGGGACCCGAGCGCGGGGGACGGCGCGGCCCGCGCGTGCAGCGCCGTGCTTGTGGGCTACGACGAGCACTTCTC
CTTCGCCAAGCTGAGGGAGGCGTGCGCGCACCTGCGCGACCCGAGTGCCACTCGTGCGCCACCGACCGTGACCC
ATGGCACCCGCTGAGCGACGGCAGCCGGACCCCTGGCACCGGGAGCCTGGCCGCTGCAGTGGAGACAGCCTCGGG
ACGCCAGGCCCTGGTGGTGGGCAAGCCCAGCCCCATCATGTTGAGTGCATCACGGAGAATTTCAGCATCGACCC
CGCACGCACTTATGGTGGGTGACCGCCTGGAGACCGACATCTCTTTGGCCACCGCTGCGGCATGACCACTGT
GCTCACGCTCACAGGAGTCTCCCGCTAGAAGAGGCCAGGCCTACCTAGCGGCCGGCCAGCACGACCTCGTGCC
CCATTACTATGTGGAGAGCATCGCAGACTTGACAGAGGGGTTGGAGGACTTGAGCCCACTGCACCTGCAGCCACAG
GCCACCCCTCCCCACTCCCTGATCCCGTAGGTGGAGGCGATGGGTACAGAGCCATGTTAAGCACAACCGGCTCC
TTGGTCCAGTTCTGCACCGGGGTGGGGCTGGGACCCGGGGAAGGTTTGAGGGCCCTTGCAACCCCTCCCAGCAG
TGGCTGGGCACTCTTGCTGCCCCAGAAGCTGGTCCCTATGGATTCACTTTGGCCTGACCCAGCCAGGTGGCCT
TATTTCTTCCCTGTCACCTCCCTCCTTGAAATCTGGGCCCTGGTGCCTGCTGAAGATTCCCTCTATCCCTGAGT
ACTTAGTCTTCTCCCCCTTCCCTGGGGCTTCTAGAGCTCTCTCTGCCCTCAGGTCCTGGCCCTTGGGTCTTGT
CAACCAGAGGTCTAGGGAACCACAACCCCTTATTGTCTTGGGTGGACCAATCCAAGGCTAAGTGATAGTGACTCA
TCAATGTTGGGTCTGTGGGGTACCAGTTTAGGTTCTTAAGTAATAGTGACCCCTTCACGTCCTGGAGCCCGAGT
GGACCAATCGGAAGCCTAAGTGACGATGACCCCTCGCATGTCCTAGGTCCCTGGGTGGACCCATCAGGACCCCAAG
TGATAGTGACCCAGTGGTCTTTTAGATCCTCAGTAGAACAGTCCAGAAGCCTGAGAGACAGTGGCCCTTGATAA
TCTGGGTCTCACGGGACCAGCTAGGGGTCCAGGTTTCAGTCAGTAAATAAGAGTGGTCCACGTCCTAAAGACACC
TCTCCTTTACAAAGACTTGIGATGCTCTGGGGCTTCTGTGGCCAAGCCCCACCCTTTCCTGGTCATGGTACCCGT
ACAGCGTTGATGGCCACAGCTCGAAGGGGGGCTTTCGTGTCCCCCTGTGCGGTGAGTGTTCAGTACCACCTCT
CTCCCGTGCCCACTTGGCTATTACTTATTTATTTATTGTGTGCCAGTGATGGTGGGTGGGGGCTGGGCTTCCC
CGCCACCTCCACCCCTGTTGTGACCTGTCTTCCGTACTTAATAAAGTGCGCGTGGGAGTGTTAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6037

MARCERLRGAALRDVLGRAQGVLFDCDGVWNGERAVPGAPELLERLARAGKAALFVSNNRRARPELALRFARL
GFGGLRAEQLFSSALCAARLLRQRLPGPPDAPGAVFVLGGEGRLRAAGLRLAGDPSAGDGAAPRVRAVLVGY
DEHFSFAKLREACAHLRDPECLLVATDRDPWHPLSDGSRTPGTGLAAAVETASGRQALVVGKPSPYMFECITEN
FSIDPARTLMVGDRLETDILFGHRCGMTTVLTLTGVSRLAEAQAYLAAGQHDLPVPHYYVESIADLTEGLED

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FIGURE 6038

ATCTCTCTCGGGTGGAGTCCTTCTGACAGCTGGTGCGCCTGCCCCGGGAACATCCTCCTGGACTCAATCATGGCTT
GTGGTCTGGTCGCCAGCAACCTGAATCTCAAACCTGGAGAGTGCTTCGAGTGCGAGGCGAGGTGGCTCCTGACG
CTAAGAGCTTCGTGCTGAACCTGGGCAAAGACAGCAACAACCTGTGCCTGCACTTCAACCCTCGCTTCAACGCCC
ACGGCGACGCCAACACCATCGTGTGCAACAGCAAGGACGGCGGGGCCTGGGGGACCGAGCAGCGGGAGGCTGTCT
TTCCCTTCCAGCCTGGAAGTGTTCAGAGGTGTGCATCACCTTCGACCAGGCCAACCTGACCGTCAAGCTGCCAG
ATGGATACGAATTCAAGTTCCCCAACCGCCTCAACCTGGAGGCCATCAACTACATGGCAGCTGACGGTGACTTCA
AGATCAAATGTGTGGCCTTTGACTGAAATCAGCCAGCCCATGGCCCCCAATAAAGGCAGCTGCCTCTGCTCCCCT
G

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FIGURE 6039

MACGLVASNLNLKPGECLRVGEVAPDAKSFVLNLGKDSNNLCLHFNPRFNAHGDANTIVCNSKDGGAWGTEQRE
AVFPFQPGSVAEVCITFDQANLTVKLDPGYEFKFPNRLNLEAINYMAADGDFKIKCVAFD

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FIGURE 6040

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGGCCGAGAGGGG
CGGCGGCGGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCCGGCCCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCCATGACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAAGTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCCTTGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGGCCGACCCAGCCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGCCACAGACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCCGCGCCGGGGCCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCG
GGAGAATAAGCGGGTGCCCCCTACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTTCAAGGCTCTTCGGGGCCAGCTGGAGGCGTGCGCTCTCAAGGGGAGGCTCC
TCAGAGTGCACTGAGATCCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCCGGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCCTGTCTAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACCTCCAGTACCTAAAGAAGGAGGTGCAGTGCCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTACCTCGGGAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAGTAGAGGTCCCGCCAGCTGCAGACCTCCAGGCTGGAGGACAGCCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCTCTGTGGGCCACACGTGCACCTTGACCCACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTTATATAGATTTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCTCCAACCTGGTCCCCCTCTGTCTCCAGCCACCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGAGAGGCGGGAGCCT
GCCACCTCTTCTGCCCTACCTCTACTAACACTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTAATAAAACGTTCCAGCAGCT

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FIGURE 6041

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSCLKYYRDSTAEAEDELGEIDLRSDTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQKEKEWL
LAEETAATASAIEMKKAYQEELSRELSKTRSLQQGPDGLRKQHQSDEALKEQLVLEQYSQKCLEIGALMRQ
AEEREHTLRRCQQEGQELLRHNLHGRLEEDQLRGFIASQGMGNCCGRSNERSSCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

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FIGURE 6042

GGGAGGCAGAGGAGGCGGAGGCAGAGGCAGAGGCAGAGGCAGAGCCGAGCCCGGTGCCGAGACCAAGCGACAGA
CCGGCGGGGCTGGGCCTCGCAAAGCCGGCTCGGCAGACTCTCCCGACACCCGAGCCGGGAGGAAAAGCAGCGAC
TCCTCGCTCGCATCCCCGGGAGCCGCACTCCAGACTGGCCCGGTAGTCAGGGGCTCAGGAGCAGATCCCGAGGCA
GGCTTTGCTCAGCCTCCGACGAGGGCTGGCCCTTTGGAAGGCGCCTTCAACAGCCGGACCAGACAGGCCACCATG
ACCGAGAATTCCACGTCCGCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCACCCC
AAGTATTTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACC GCGCTGGCTCCTCGCGCCAGTCCATTTCAG
AAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTGGTC
ACCACCGGTGTCTCAAGCAGACCAAAAGGGGTGGGGCCTCGGGGTCTTCCGGCTAGCCAAGAGCGACGAACCC
AAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAGCCC
AAGAAGGCTGCCTCCAAGCCCCAACCAAGAAACCCAAAGCCACCCCGGTCAAGAAGGCCAAGAAGAAGCTGGCT
GCCACGCCCAAGAAAGCCAAAAACCCAAAGACTGTCAAAGCCAAGCCGGTCAAGGCATCCAAGCCCCAAAAGGCC
AAACCAGTGAAACCCAAAGCAAAGTCCAGTGCCAAGAGGGCCGGCAAGAAGAAGTGACAATGAAGTCTTTTCTTG
CGGACACTCCCTCCTGTCTCCTATTTCTGTAATAATTTCTCCTTTTTTCTCTCTTGATGCTCACCACCACCT
TTTGCCCCCTTCTGTTCTGACTTTATAAGAGACAGGATTTGGATTCTTCAGAAATTACAGAATAATTCATTTTTC
CTTAACCAGTTGTGCAAGGACAGCAACAACCAATCTAATGATGAGAATGTACTTATATTTGTTTTGCTATTAAC
CTACTTACGGGGTTAGGGATTTGCGGGGGGGGCTTGTGTGTTTTGTTGGCTTGTTTGCCATGAAGGTAGATGTGG
GTGGGGAGAAGACACAAGGCAGTTTGTCTGGCTAGATGAGAGGGAACCCAGGAATTGTGAGGTTAGCAGGAATA
TCTTTAGGGTGAGTGAGTTTTCTTTGAGTTGGGCACCCGTTGTGAGAGTTTCAGAACCTTTGGCCAGCAGGAGAG
AGGTGGTAGGGAGCAGCCAGCCGGCAAAGGAAGGAGGGGGAAAAAACCGCCACCGGGCTGACTTCCACCTCCCA
GTGGTGAGCAGTGGGGGCCCAAACCCAGTTTCCTTCTCATTTTGTAGTTTGCGCTTTCGGCCTCCCTATTTTC
TTAGGGAAGGGGAGTGGGGTCCAAGTGACAGCTGGATGGGAGAAGCCATAGTTTCTCCAGTCAGCTAGGATGTA
GCCATTGGGGGATCTTTGTGGCTTCAGCAAATCTCTTGTAAACCGAGTGAAAACCTTCAGGGGAAGGGTGGGG
AGTCAGCCAAGTGCCTCAGTGTGCGCTGTTGAACTTAGGTTTTTCCACGCAATCGATGGATTGTGTCTAGGAA
GACTTTTCTTTTCTCTGGATTTTGTTCCTCCTGTACAAGAGGTGTCTTTGCTTGGTTTGGTGGGGCTGCGGCC
ACTTAAAACCTCCCGATCTCTTTTTGAGTCCTTTATTATAAGTAGTTGTAGCTGCGGGAGGGGGAGGGGAGTGG
GCGGGCAGTGGATAGTAAGACTTACTGCAGTCGATTGGGATTGCTAAGTAGTTTACAGAGCTAGATCTGTGT
GCATGTGTGTGTTTGTGTATATATACATATCTAGGGCTAGTACTTAGTTTCACACCCGGGAGCTGGGAGAAAAA
CCTGTACAGTTGTCTTTCTCTTATTTTTAATAAAATAGAAAAATCGCGCACTTGC GCGTCCCCCCCCACCCCT
TTTTTAAACAAGTGTTACTTGTGCCGGGAAAATTTGCTGTCTTTGTAATTTTAAACCTTTAAAATAAATTGAA
AAGGGAG

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FIGURE 6043

ATGACCGAGAAATTCACGTCCGCCCCTGCGGCCAAGCCCAAGCGGGCCAAGGCCTCCAAGAAGTCCACAGACCAC
CCCAAGTATTCAGACATGATCGTGGCTGCCATCCAGGCCGAGAAGAACCGCGCTGGCTCCTCGCGCCAGTCCATT
CAGAAGTATATCAAGAGCCACTACAAGGTGGGTGAGAACGCTGACTCGCAGATCAAGTTGTCCATCAAGCGCCTG
GTCACCACCGGTGTCCTCAAGCAGACCAAAGGGGTGGGGGCCTCGGGGTCCTTCCGGCTAGCCAAGAGCGACGAA
CCCAAGAAGTCAGTGGCCTTCAAGAAGACCAAGAAGGAAATCAAGAAGGTAGCCACGCCAAAGAAGGCATCCAAG
CCCAAGAAGGCTGCCTCCAAAGCCCCAACCAAGAAACCCAAAGCCACCCTTTTTTTAAACAAGTGTTACTTGTGCC
GGGAAAATTTTGCTGTCTTTGTAATTTTAAACTTTAAATAAATTGAAAAGGGAG

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FIGURE 6044

MTENSTSAPAAKPKRAKASKKSTDHPKYSDMIVAAIQAEKNRAGSSRQSIQKYIKSHYKVGENADSQIKLSIKRL
VTTGVLKQTKGVGASGSFRLAKSDEPKKSVAFFKTKKEIKKVATPKKASKPKKAASKAPTCKKPKATLF

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FIGURE 6045

GTCTTTCCGGCGGTGCTCGCAAGCGAGGCAGCCATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT
GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAG
TATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCACAAAACCTGTCTCA
GATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCCAGTGATGTCAATTGACCAGAAAGGTGTAT
GAGATCCAGGACATCTATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCCGAG
GCTGAAGCCATTGCTCCACAGGTGGCAATGATGCTGTCTTCCTGATTTTATACAAAGAATTATACTACAGGCAC
ATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTTGAATCCTATTACAACCTACTGCAATCTCTTC
AACTACATTCTTAATGCCGATGGTTCCTGCTCCCCCTGAACTACCCAACCAAGTGGCTCTGGGATATTATCGATGAG
TTCATCTACCAGTTTCAGTCATTTCAGTCAGTACCCTGTAAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT
CTTCGTTCCAATCCCAAAATCTGGAATGTTTCATAGTGTCCTCAATGTCTTCATTCCCTGGTAGACAAATCCAAC
ATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAGAGTGTGGCTGGGGAGTATGGGCGGCACTCC
CTCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCCTGCACTCCCTGTTAGGAGATTACTACCAG
GCCATCAAGGTGCTGGAGAACATCGAAGTGAACAAGAAGAGTATGTATTCCCGTGTGCCAGAGTGCCAGGTCACC
ACATACTATTATGTTGGGTTTGCATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATC
CTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATTAAACAAGCAGAAT
GAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATGCGTATCGATGAGAGCATTCACCTCCAG
CTGCGGGAGAAATATGGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCAGT
TACTCCTGCCCCAAGTTCCTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCAACTACCACAAAGAGCCC
TTCTCTGCAGCAGCTGAAGGTGTTTTCTGTATGAAGTACAGCAGCAGGCCAGCTTTCAACCATCCGCAGCTTCCTG
AAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCCTGGACCTCACAGAGCAGGAGTTCCGGATCCAG
CTTCTTGCTTTCAACACAAGATGAAGAACCCTCGTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTTCAG
TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTCGCCAGGCGTTAT
GGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAATCGAACCCTGAAGAAGATGGGACAGAGACCT
TGATGATATTACACACATTTCAGGAACCTGTTTTGATGTATTATAGGCAGGAAGTGTTTTTGCTACCGTGAAACC
TTTACCTAGATCAGCCATCAGCCTGTCAACTCAGTTAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT
AAAGGATCTTTGGAGCCAGAAAAAA

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FIGURE 6046

MSYPADDYESEAAYPDYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVPIEVIKNFIQYFHKTVSDLIQKVYELQ
ASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDVFLILYKELYRHIYAKVSGGPSL
EQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVH
SVLNVLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRRLHSLLDYQAIKVLNIELN
KKSMYSRVPECQVTYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIAL
TMYPMRIDESIHLQLREKYGDKMLRMQKGDQPQVYEELFSYSCPFLSPVVPNYDNVHPNYHKEPFLQQLKVSDE
VQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDK
DMIHIADTKVARRYGDFFIRQIHKFEELNRTLKKMGQRP

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FIGURE 6047A

GGCCAAGCCGGGGCCCCGAAGCCAGAGCCGGAGCCGGGCGGGGCCGCGGGGTCATGGCTGGGCCGCGGGGCGCGCT
GCTGGCCTGGTGCCGCCGCCAGTGCGAGGGGTACCGCGGCGTGGAGATCCGCGACCTGAGCAGCTCCTTCCGGGA
CGGCCTGGCCTTCTGCGCCATCCTGCACCGGCACCGGCCCCGACCTGCTAGATTTTGATTGCTTTCCAAGGACAA
TGTCCTTCGAGAATAACCGTTTGGCCTTTGAAGTGGCTGAGAAGGAGCTGGGGATCCCCGCTCTCCTGGACCCAA
TGACATGGTCTCCATGAGCGTCCCTGACTGCCTCAGCATCATGACCTATGTGTCCCAGTATTACAACCACTTCTG
CAGTCTGGCCAAGCTGGTGTCTCGCCACCCAGAAAGGGCCTTGACCCCTGTTCCCCGCGCTCTGTAGCACCCAC
TCCAGTGGAAACCAGAAGATGTGGCTCAGGGCGAGGAGCTCTCCTCAGGCAGCCTGTGAGAGCAGGGCACCGGCCA
GACCCCCAGCAGCACGTGCGCAGCCTGCCAGCAGCATGTGCACTTGGTGCAGCGCTACCTGGCTGACGGCAGGCT
GTACCATCGCCACTGCTTCCGGTGTGCGCGGTGCTCCAGCACCTGCTCCCTGGGGCTTATGAGAATGGGCCTGA
GGAGGGCACCTTTGTGTGTGTCAGAACACTGTGCCAGGCTGGGCCCCGGGGACACGGTTCGGGGACCAGGCCTGGGCC
CTTCTCACAGCCAAAGCAGCAGCACCAGCAGCAACTCGCAGAAGATGCCAAGGATGTTCCAGGAGGCGGCCCCAG
CTCCAGTGCTCCTGCAGGGGCTGAGGCCGATGGACCCAAGGCCAGCCCTGAGGCCCCGGCCGAGATCCCTACCAA
GCCCCGGGTTCTTGGCAAACCTACAGGAGCTGGCCAGCCCCCTGCGGGCCGCCCAACCCCTGCCCCAGGAAGGC
CTCTGAGAGCACCAACCCAGCACCCCCACGCCCGGCCCCGCTCCAGTCTGCAGCAGGAGAACCTGGTGGAGCA
GGCTGGCAGCAGCAGCCTGGTGAACGGGAGACTGCACGAACTGCCTGTCCCCAAGCCGAGGGGGACACCGAAGCC
GTCCGAGGGGACACCAGCCCCAGGAAGGACCCCCATGGATCACGCTGGTGCAGGCAGAACCAAGAAGAAGCC
AGCCCCACTTCCCCAAGCAGCAGCCCGGGGCCACCAAGCCAGGACAGCAGGCAGGTGGAGAATGGAGGCACCGA
GGAGGTGGCCCAGCCGAGCCCAACGGCCAGCCTGGAGTCCAAACCTATAACCCCTTTGAGGAGGAGGAGGAGGA
CAAGGAGGAAGAGGCTCCAGCTGCACCCAGCCTGGCCACCAAGCCCTGCCCTGGGCCACCCGGAGTCCACACCCAA
GTCCCTGCACCCCTGGTACGGCATCACCCCTACCAGCAGCCCCAAGACAAAGAAGCGCCCTGCCCGCGCGCACC
CAGCGCGTCCCCACTGGCTCTCCACGCCTCCCGCTCTCGCACTCGGAGCCGCCCTCGGCCACACCATCGCCAGC
GCTCAGCGTGGAGAGCCTGTCTGTCTGAGAGCGCCAGCCAGACTGCAGGTGCAGAGCTTCTGGAGCCGCCAGCTGT
GCCAAGAGCTCCTCAGAGCCTGTGTCCATGCCCTGGTACCCCTGGAAACCTGTGAGCCTCTCTACCAACTC
CTCCCTGGCCTCCTCTGGGGAAGTAGTGGAGCCTAGAGTGGAAACAAATGCCTCAAGCCAGCCCTGGCCTTGCCCC
CAGGACCAGGGGACGCTCAGGTCCCCAGCCAGCCAGCCCTGCAGTGGCGCCACCCCAACGCCTCTCTTGTGGT
TGGAGACAGGAGCCCGGTGCCTTCCCTGGAAGCTCGTCCCCACAGCTGCAGGTAAAGTCTCCTGCAAGGAGAA
TCCTTTTAACCGGAAGCCATCACCTGCAGCGTCCCCAGCCACAAAGAAGGCCACCAAGGGATCCAAGCCAGTGAG
GCCACCTGCCCTGGACACGGCTTCCACTCATCAACGCAAGGTCCAGGCTGACCACTACATCCCTGAGGAGGA
CATCCATGGAGAGATGGATACCATGAGCGCCGGCTGGATGCCCTGGAGCACCGTGGGGTGTCTGTGGAGGAGAA
GCTGCGTGGCGGCTGAATGAGGGCCGTGAGGATGACATGCTGGTGGACTGGTTCAAGCTCATCCACGAGAAGCA
CCTACTGGTGGCGGAGAGTCCGAGCTCATCTATGTCTTCAAGCAGCAGAACCTGGAGCAGCGCCAGGCTGATGT
CGAGTATGAGCTCCGGTGCCTCCTCAATAAGCCAGAAAAGGACTGGACGGAGGAGACCGGGCCCGGAGAAAGGT
GCTGATGCAGGAGCTTGTGACCCTCATTGAGCAGCGCAACGCTATCATCAACTGCCTGGATGAGGACCGGCAGAG
GGAGGAAGAGGAAGACAAGATGTTGGAAGCCATGATCAAGAAGAAAGAGTTCCAGAGGGAGGCTGAACCTGAGGG
CAAGAAGAAGGGGAAGTTCAAGACCATGAAGATGTTGAACTGCTAGGAAACAAACGTGATGCCAAGAGCAAGTC
CCCCAGAGACAAGAGCTAAACAGCACGAGAAGCCAGTTGGGGAAGTCCCCCTCCTGGAGCAGCTCCTGGGCTGTGC
TCTGTTTGAAGGGGGCGCCCTGCTCCCTCAGATCAGTCAGGAGGAAGATGACTAAGGGGAGGGATCCTCTGGGT
GATGGCCTCTTCTCCTCAGGGACCTCTGACTGCTCTGGGCCAAAGAATCTCTTGTTTCTTCTCCGAGCCCCAGG
CAGCGGTGATTAGCCCTGCCAACCTGATTCTGATGACTGCGGATGCTGTGACGGACCCAAGGGGCAATAGGG
TCCAGGGTCCAGGGAGGGGCGCCTGCTGAGCACTTCCGCCCTCACCTGCCAGCCCTGCCATGAGCTCTGG
GCTGGGTCTCCGCTCCAGGGTCTGCTCTTCCAGGCAGGCCAGCAAGTGGCGCTGGGCCACACTGGCTTCTTCC
TGCCCCATCCCTGGCTCTGAGTCTCTGTCTTCTGTCTGTGAGGCGCCCTTGATCTCAGTTTCCCTCACTCA
GGAAGTCTGTTTCTGAAGTCTTCAAGTTAAGTTTGAAGTTTATGACTGAGTGGCCTGTACTGTGAGACGTGAATGGG
CCTGACGGGCAATCCATCCCTCTCTCCCTCACAGTTCCAGGAGCGGCTTCCCTCGTCTCCCTTACTCCACAGG
GAGCCTCCCTTGCCAGGACCAGGGCTGCGACGGCCATGCTGGGGCAGGTGAGTGTCTGTGTAGCTGCTCCAGTG
CTGTCCCCAGGCTGCAGTTCTGGTCCCTGGTTGTGAGGTAGGAAGGGTGCAGTTGAAGCAGGTGCTCATCTCGGT
TCCTTAACGTTTATAGTCTGACCCCTCACTTAGGCTTTCCTCTGCCACCCGGTCCAGGGAAGAGGCTCGCTCCC
GCCCATGGTCATCACTGGTCTGTCTGTCTGTCTGTTCTTTCCCTGACTCCCTCCACCGAAGGCCTGATGG

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FIGURE 6047B

CTACTCACCCCTCTGGGATGGCTATGGGAGAGGAGGAGTGATGGGGACCGCCACCTTTTCTGCAGGAAATGTGCC
CAGCAGCTCTTGGTCAAAGCACTGTTGCTATAAGCTATCTCTGGGATGCCTCTAGGCCCCCTTCCCTCTACACAC
CTCTGGGAAAAGATTACACTGTATTAAGCTCTCGAGGAGTTTCCTCACCAATAAACAGACAACCTCAACTGCCAGT
GCCCTGCAGCCTCGGGCCACAGCGGCAGCCTTGTTTGCCTTCCCACCTGCCTCTGCCACACCTGGTGGCTGAACA
TCTCTGGTCGCCCCAGAGGCCATGTTGGGGCCATCCTCCAAGAGGGATCTCTGCCCTCACCGCCTGCCACTGGGCA
GGATCCCTTTCTCTGCAGGGAGAGGTGGCTCCTCGGCCATGCAGCCCCTGGCAGGCTCCTTCTAAACATGCCTG
TTGACCTGGAGCTGGCGCCACCAACTCCAGGGCCTTTCCAGGGCCAGACAGGTAACACGCATGAACCCGAGTGAC
AGCTCTGACGGGCTGTTTCGGTGTCAGGAGACAAAGCTGGCAGGGGCAGGGGTGAAGTGGAGGCAAGTCAAGTCA
CCTGTGGCCTGTGGGGCTGAATGTGGGCCCCGTGTTGCCAGATCCTTTGTCTATAAGAAGCTAGAAATCCAGATTT
TATGTGTGTGTAATTTGTAAATGCTGAAAGCTAGCCTGAATTTTTTTTTTTTTTTTTTTTGTAGACAGAGTCTCGCTC
TGTCGCCCAGGCTGGAGTGCAGTGGCGCGATCTCAGCTCACTGCAAGCTCCGCCTCCTGGGTTACAGCCATCCTC
CTGCCCTCGGCCTCCTGAGCAGCTGGGACTACAGGCGCATGCTACGACGCCTGGCTAATTTTTTGTATTTTTTAGTA
GAGACGGGGTTTACCGTGTTAACCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCACCTTGGCCTCCCA
AAGTGCTGGGATTACAGGCGTGAGCCACCACGCCCCGCCACTAGCCTGAATTTCAATCAAGGGTTGGCTGATACT
GTGTGTCCAGGGTGGACTGGATTTGTCTGGGGGGTTCTCTGGTTTGCTGCCTCCTGACCACATGATGGGGCCTT
CGAGGTCGAGGACAAGTGTCCATTAGATTGCACCCCTCTGCCCTCAGGTCTTGAGGGTGTGTGGACACAGAGG
CTTTCCATGGGATGTCCCTGAGCCGGCCCTTGATTGGGGCCTCACCATTTACAGGGCCGTTTTATTCTGCAAACC
GAAACTTGGGTCATGTGACCTGATGGGATTATGGGACTCCCTCCAGGTGCCCAGACAAGGTTGATATTTCCAAA
ATATTTTGGTGATTTAGTGGGACAAGCAAATGACAGAATACCGGAGAAGGCAGGGATCGTGGGTGTGAGGAGCCA
GAGGGGAGGGGGACAGATGTGCTGTGTACAGGACAAGGTGTGAGGTGACTCCTTCCCAGCAGGGCCTCGCAGATG
CACAAAGCACGGAGCTGGTGGGTTTTGCCCAAGAAAGGTACGCGGCACATGCAGGGATTGGAATCCCAGGCCAG
GGCTCTAGGTCGCTCCACCTTTTCATGTTTCTTCTGTGGCCATGGGTATAGTGGAAGACATAAAGCTAAAGC
CAACTTTTAATCCTGAATGCACTGCTTGCCAGGTAAATGCCCTTGTTGTGGTATCTTGTTGAGACTTAGTTTTTC
ACAGAGGGATAATGAACCGTTGCAGAGGTTTATTGAGATCATTAACAGAGTGGAATTCAGCACCCGCCACAGCAG
CCAGCCATGGG

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FIGURE 6048

MAGPRGALLAWCRRQCEGYRGVEIRDLSSSFRDGLAFCAILHRHRPDLLDFDSLSDNVFENNRLAFEVAEKELG
IPALLDPNDMVSMSVFDCLSIMTYVSQYYNHFCSPGQAGVSPPRKGLAPCSPPSVAPTPVEPEDVAQGEELSSGS
LSEQGTGQTPSSTCAACQQHVHLVQRYLADGRLYHRHCFRCRRCSSTLLPGAYENGPEEGTFVCAEHCARLGP
RSGTRPGPFSQPKQQHQQQLAEDAKDVPGGGPSSSAPAGAEADGPKASPEARQIPTKPRVPGKLQELASPPAGR
PTPAPRKASESTTPAPPTPRPRSSLQOENLVEQAGSSSLVNGRLHELPVVKPRGTPKPSGTPAPRKDPPWITLV
QAEFKKKPAPLPPSSSPGPPSQDSRQVENGTEEVAQPSPTASLESKPYNPFEEEEEDKEEEAPAAPSLATSPAL
GHPESTPKSLHPWYGITPTSSPKTKKRPAPRAPSPALHASRLSHSEPPSATPSPALSVESSLSESASQTAGA
ELLEPPAVPKSSSEPAVHAPGTPGNPVSLSTNSSLASSGELVEPRVEQMPQASPG LAPRTRGSSGPQPAKPCSGA
TPTPLLLVGDRSPVPSPGSSSPQLQVKSSCKENPFNRKPSPAASPAKKATKGSKPVRRPAPGHGFPLIKRKVQA
DQYIPEEDIHGEMDTIERRLEHRLDALEHRGVLLLEKLRGGLNEGREDMLVDWFKLIHEKHLLVRRESELIYVFKQON
LEQRQADVEYELRCLLNKPEKDWTEEDRAREKVLQMQLVTLIEQRNAIINCLDEDRQREEEEDKMLEAMIKKKEF
QREAEPEGKKKGKFKTMKMLKLLGNKRDAKSKSPRDKS

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FIGURE 6049

GTCCGGCCAGGGTGGTTGGTGGTAAGGATTCAAGGCTCCGTCCTAACGAGGCCGTGGCCTGAGGCTCAGGGCCCCC
CGCCCCCTCCCTCCCAGCCCACCAGCGTCACCTCCCAGCCCCGAGCTGGACCGCACACCTTGGGACACGGTTTTCC
ACTTCCTAAGGACGAGCCCCAGACTGGAGGAGAGGTCCGAGGAGGTGGGCGTTGGACTCTTTGCGAGGACCCCCG
CGGCTGGCCCCGGGGAGGCGGCCGAGGCGGCCGCGGCCGCGGCCGCGGGGCGACATGGCGGAGGAGCAGGACCTAT
CGGAGGTGGAGCTGAGCCCCGTGGGCTCGGAGGAGCCCCGCTGCCTGTCCCCGGGGAGCGCGCCCTCGCTAGGGC
CCGACGGCGGCGGCGGCGGATCGGGCTGCGAGCCAGCCCCGGGGCCAGGCGAGCTGGGCAAGGTCAAGAAGGAGC
AGCAGGACGGCGAGGCGGACGATGACAAGTTCCCCGTGTGCATCCGCGAGGCCGTGAGCCAGGTGCTCAGCGGCT
ACGACTGGACGCTGGTGCCCATGCCCGTGC CGCTCAACGGCGCCAGCAAAAGCAAGCCGCACGTCAAGCGGCCCA
TGAACGCCCTTCATGGTGTGGGCTCAGGCAGCGCGCAGGAAGCTCGCGGACCAGTACCCGCACCTGCACAACGCTG
AGCTCAGCAAGACGCTGGGCAAGCTCTGGAGGCTGCTGAACGAAAGTGACAAGCGCCCCCTTCATCGAGGAGGCTG
AGCGGCTCCGTATGACAGCAAGAAAGACCACCCGACTACAAGTACCAGCCCAGGCGGCGGAAGAACGGGAAGG
CCGCCAGGGCGAGGCGGAGTGCCCCGGTGGGGAGGCCGAGCAAGGTGGGACCGCCGCCATCCAGGCCCACTACA
AGAGCGCCCACTTGACCACCGGCACCCAGGAGAGGGCTCCCCCATGTGAGATGGTAACCCGAGCACCCCTCAG
GCCAGAGCCATGGCCACCCACCCCTCCAACCAACCCGAAGACAGAGCTGCAGTCGGGCAAGGCAGACCCGAAGC
GGGACGGGCGCTCCATGGGGGAGGGCGGGAAGCCTCACATCGACTTCGGCAACGTGGACATTGGTGAGATCAGCC
ACGAGGTAATGTCCAACATGGAGACCTTTGATGTGGCTGAGTTGGACAGTACCTGCCGCCCAATGGGCAACCCAG
GCCATGTGAGCAGCTACTCAGCAGCCGGCTATGGGCTGGGCAAGTGCCTGGCCGTGGCCAGTGGACACTCCGCCCT
GGATCTCCAAGCCACCAGGCGTGGCTCTGCCCACGGTCTCACCACCTGGTGTGGATGCCAAAGCCAGGTGAAGA
CAGAGACCGCGGGGCCCCAGGGGCCCCACACTACACCGACCAGCCATCCACCTCACAGATCGCCTACACCTCCC
TCAGCCTGCCCCACTATGGCTCAGCCTTCCCCCTCCATCTCCCGCCCCAGTTTGACTACTCTGACCATCAGCCCT
CAGGACCCTATTATGGCCACTCGGGCCAGGCCTCTGGCCTCTACTCGGCCTTCTCCTATATGGGGCCCTCGCAGC
GGCCCTCTACACGGCCATCTCTGACCCAGCCCTCAGGGCCCCAGTCCCACAGCCCCACACTGGGAGCAGC
CAGTATATACGACACTGTCCCGGCCCTAAAGGGGGCCCTGTGCGCCACCACCCCCCGCCAGCCCTGCCCCCAGC
CTGTGTGCCCTGTTTCCTTGCCACCTCAGGCCTGGTGGTGGCAGTGGAGGAGGCTGAGGAGGCTGAAGAGGCTGA
CAGGTCGGGGGGGCTTCTGTCTGGCTCACTGCCCTGATGACCCACCCGCCCATCCAGGCTCCAGCAGCAAAGCC
CCAGGAGAACAGGCTGGACAGAGGAGAAGGAGGTTGACTGTTGCACCCACACTGAAAGATGAGGGGCTGCACCTT
CCCCCAGGAATGACCTCTATCCAGGACCTGAGAAGGGCCTGCTCACCCTCCTCGGGAGGGGAAGCACCAGGG
TTGGTGGCATCGGAGGCCTTACCACTCCTATGACTCCTGTTTTCTCTCTCACAGATAGTGAGGGTCTGACATGCC
CATGCCACCTATGCCACAGTGCCTAAGGGCTAGGCCACCCAGAGACTGTGCCCGGAGCTGGCCGTGTCTCCCACT
CAGGGGCTGAGAGTAGCTTTGAGGAGCCTCATTGGGGAGTGGGGGGTTCGAGGGACTTAGTGAGTTCTCATCCC
TTCAATGCCCCCTCCCTTTCTGAAGGCAGGAAGGAGTTGGCACAGAGGCCCTGATCCAATTCTGTGCCAATAA
CCTCATTCTTTGTCTGAGAAACAGCCCCCAGTCCTCCTCCACTACAACCTCCATGACCTTGAGACGCATCCCAGG
AGGTGACGAGGCAGGGGCTCCAGGAAAGGAATCAGAGACAATTCACAGAGCCTCCCTCCCTGGGCTCCTTGCCAG
CTCCCTCTTCCCTTACTAGGCTCTATGGCCCCCTGCTCAGTCAGCCCCACTCCCTGGGCTTCCAGAGAGTGACAG
CTGCTCAGGCCCTAACCTTGGCTCCAGGAGACACAGGGCCAGCACCAGGTTGCTGTGCGCAGGCTGAAGACA
CTAGAATCCTGACCTGTACATTCTGCCCTTGCTCTTACCCCTTGCTCCAGTGGTATTTGAATAAAGTATGTA
GCTATATCTGCCCTATTTTCTGTTCTGAGCCCCCAAATCCACATGTAACCTATTACTGTCTCCTGTTATTT
ATCTCAGTAGTCCCTCTCCTAGCCACTCTAGCCCCCTATTAACCTCTGCATTAAAGCATTCCACATAATAAAATTAA
AGGTTCCGGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6050

MAEEQDLSEVELSPVGSEEPRLSPGSAPSLGPDGGGGGSGLRASPGPGELGKVKKEQQDGEADDDKFPVCIREA
VSQVLSGYDWTLPMPVRVNGASKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLES
RPFIEEAERLRMQHKKDHPDYKYQPRRRKNGKAAQGEAECPGGEAEQGGTAAIQAHYKSAHLDRHPGEGSPMSD
GNPEHPSGQSHGPPTPPTPKTELQSGKADPKRDGRSMGEGGKPHIDFGNVDIGEISHEVMSNMETFDVAELDQY
LPPNGHPGHVSSYSAAGYGLGSALAVASGHSAWISKPPGVALPTVSPPGVDAKAQVKTETAGPQGPPHYTDQPST
SQIAYTSLSLPHYGSAFPISISRPQFDYSDHQPSGPYYGHSGQASGLYSAFSYMGPSQRPLYTAISDPSPSGPQSH
SPTHWEQPVYTTLSRP

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FIGURE 6051

CTGGGGGTCCGTTCCCCAACTTCCTCGGCGCTCCGGACTCCCAAGTCTCCGCCGGACCTCCTTTGGATATTCCCT
CGTGTCTCCGATTCTGAGAGAGGGGGAAGACGGTGGGGCCTCCCCACCTGCCCCGAGAAAGATGCAGTTCTTTGG
CCGCCTGGTCAATACCTTCAGTGGCGTCACCAACTTGTTCTCTAACCATTCCGGGTGAAGGAGGTGGCTGTGGC
CGACTACACCTCGAGTGACCGAGTTCGGGAGGAAGGGCAGCTGATTCTGTTCCAGAACACTCCCAACCGCACCTG
GGACTGCGTCTGGTCAACCCCAGGAAGTTCACAGAGTGGATTCCGACTCTTCCAGCTGGAGTTGGAGGCTGACGC
CCTAGTGAATTTCCATCAGTATTCTTCCCAGCTGCTACCTTCTATGAGAGCTCCCCCTCAGGTCTGCACACTGA
GGTCTGTCAGCACCTGACCGACCTCATCCGTAACCAACCCAGCTGGTTCAGTGGCCACCTGGCTGTGGAGCTAGG
GATCCGCGAGTGTCTCCATCACAGCCGTATCATCAGCTGTGCCAATTGCGCGGAGAACGAGGAGGGGCTGCACACC
CCTGCACCTGGCCTGCCGCAAGGGTGATGGGGAGATCCTGGTGGAGCTGGTGCAGTACTGCCACACTCAGATGGA
TGTCACCGACTACAAGGGAGAGACCGTCTTCCATTATGCTGTCCAGGGTGACAATTCTCAGGTGCTGCAGCTCCT
TGGAAGGAACGCAGTGGCTGGCCTGAACCAGGTGAATAACCAAGGGCTGACCCCGCTGCACCTGGCCTGCCAGCT
GGGGAAGCAGGAGATGGTCCGCGTGCTGCTGTGTCGAATGCTCGGTGCAACATCATGGGCCCAACGGCTACCC
CATCCACTCGGCCATGAAGTTCTCTCAGAAGGGGTGTGCGGAGATGATCATCAGCATGGACAGCAGCCAGATCCA
CAGCAAAGACCCCGTTACGGAGCCAGCCCCCTCCACTGGGCCAAGAACGCAGAGATGGCCCGCATGCTGCTGAA
ACGGGGCTGCAACGTGAACAGCACCAGCTCCGCGGGGAACACGGCCCTGCACGTGGCGGTGATGCGCAACCGCTT
CGACTGTGCCATAGTGTGCTGACCCACGGGGCCAACGCGGATGCCCGCGGAGAGCACGGCAACACCCCGCTGCA
CCTGGCCATGTGAAAGACAACGTGGAGATGATCAAGGCCCTCATCGTGTTCGGAGCAGAAGTGGACACCCCGAA
TGACTTTGGGGAGACTCCTACATTCCTAGCCTCCAAAATCGGCAGACTTGTACCAGGAAGGCGATCTTGACTCT
GCTGAGAACCGTGGGGGCCGAATACTGCTTCCACCCATCCACGGGGTCCCCGCGGAGCAGGGCTCTGCAGCGCC
ACATCATCCCTTCTCCCTGGAAAGAGCTCAGCCCCACCGATCAGCCTAAACAACCTAGAACTACAGGATCTCAT
GCACATCTCACGGGGCCGGAAGCCAGCGTTTCATCCTGGGCTCCATGAGGGACGAGAAGCGGACCCACGACCCT
GCTGTGCCTGGATGGAGGAGGAGTGAAAGGCCTCATCATCATCCAGCTCCTCATCGCCATCGAGAAGGCCTCGGG
TGTGGCCACCAAGGACCTGTTGACTGGGTGGCGGGCACCAGCACTGGAGGCATCCTGGCCCTGGCCATTCTGCA
CAGTAAGTCCATGGCCTACATGCGCGGCATGTACTTTCGCATGAAGGATGAGGTGTTCCGGGGCTCCAGGCCCTA
CGAGTCGGGGCCCTTGAGGAGTTCTTGAAGCGGGAGTTTGGGGAGCACACCAAGATGACGGACGTCAGGAAACC
CAAGGTGATGTGACAGGGACACTGTCTGACCGGCAGCCGGCTGAACCTCCACCTCTTCCGGAACACGATGCTCC
AGAAACTGTCCGGGAGCCTCGTTTCAACCAGAACGTTAACCTCAGGCCTCCAGCTCAGCCCTCAGACCAGCTGGT
GTGGCGGGCGGGCGAAGCAGCGGGGACGCTCCTACTTACTTCCGACCAATGGGCGCTTCTTGACGGTGGGCT
GCTGGCCAACAACCCACGCTGGATGCCATGACCGAGATCCATGAGTACAATCAGGACCTGATCCGCAAGGGTCA
GGCCAACAAGGTGAAGAAACTCTCCATCGTTGTCTCCCTGGGGACAGGGAGGTCCCCACAAGTGCCTGTGACCTG
TGTGGATGTCTTCCGTCCCAGCAACCCCTGGGAGCTGGCCAAGACTGTTTTTGGGGCCAAGGAACCTGGGCAAGAT
GGTGGTGGACTGTTGACAGGATCCAGACGGGCGGGCTGTGGACGGGCACGGGCTGGTGCAGATGGTCGGCAT
CCAGTACTTCAGATTGAACCCCCAGCTGGGGACGGACATCATGCTGGATGAGGTGAGTGACACAGTGTGCTCAA
CGCCCTCTGGGAGACCGAGGTCTACATCTATGAGCACCGCGAGGAGTTCCAGAAGCTCATCCAGCTGCTGCTCTC
ACCTTGAGGGTCCCCAGCCTCTACCGGCCCCAGCTGACCTCGTCCATTAGCCCTGCCAGGCCAAGCCAGCC
ACTGCCCTCCCCGGGCAGATCTGGGCCAGGCACCTCTGAGTCCATAGACCAGGCCTGGGAGAATGCCAAGCTGCC
TGCCCGAGGCTGGTCTGAAGGCCTGTCTCCCACTAACCCCGCCTTCCAGCACTTTCTGTCTATTCCAGGCTGGGA
AAGTCTAGAGCCCCCTTTGGCCCCCTTTCCCTGACTGTCAAGGACAACCTGACTCCCCCATCAGCTCAAAACATTAAG
GGTACCCGGGCACAACCGTACCCCTGCCCCAGCCCCAGCCTCCCTGAGGGCCTGCCGGGCTGCCTCTGCCCCAG
CCCCAGCAAGGGCACTCCAGGCTTCTGGTGGGTGCAGCCCACTCCCTCTGCCCTCTGCTCCGTTCCCTGGGG
GCTGGGACTAAAGAAATGGGTGTCCCCACCCCATCAGCTGGGAAAGCCAGGCCGAGGAGTGGGATGCCCGTT
GGACTTTGCCCTCACACTGGCCAGCCCTCACACTGCCCAACCCGAGAACCCTCAGCTCTCAAAGGTCACTC
CTGGGAGTTTCTTCTTCCCAATGGAAGTGGCTTAAGAGCCAAAACCTGAAATAAATCATTGGATTCAAGTTC

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FIGURE 6052

CTTACAACCTCCGCGCGGCTCGGCCCCCTGCGCCGCCCGCCCCACAACAAACTCAGCGCAGCGCTCCCGGGGCGC
CCGGTTCAGAGCGACCTGCGGCTCAGAGCGGAGGGGAGACTGACCGGAGCGCGGATCGGGACAGCGGCCGGGACA
GCGGCGAGACGCGCGTGTGTGAGCGCGCCGACCAAGCGGGCCAGAAGCGGGTCTGCAGCCCAGAGGGCACCTT
CTGCAAAACATGTCTGTGGATCCCCATCCAGCAAAGCTCTAAAGATCAAGCGAGAGCTGAGCGAGAACACGCCGC
ACCTGTGCGACGAGGCGCTGATGGGGCTGTCGGTGCAGGAGCTGAACCGGCATCTGCGCGGGCTCTCCGCCGAGG
AGGTGACACGGCTCAAGCAGCGGCGCCGCACACTCAAAAACCGTGGCTACGCCGCCAGCTGCCGCGTGAAGCGCG
TGTGCCAGAAGGAGGAGCTGCAGAAGCAGAAGTCGGAGCTGGAGCGCGAGGTGGACAAGCTGGCGCGCGAGAACG
CCGCCATGCGCCTGGAGCTCGACGCGCTGCGCGGCAAGTGCAGAGCGCTGCAGGGCTTCGCGCGCTCCGTGGCCG
CCGCCCGCGGGCCCCGCCACGCTCGTGGCGCCGGCCAGCGTCATACCATCGTCAAGTCCACCCCGGGCTCGGGGT
CTGGCCCCGCCACGGCCCCGGACCCCGCCACGGCCCCGGCCTCCTGCTCCTAGTGCCCCGCCCGCCATGCCTCA
GCCACGCCCTCCGGCCTCAGCTCCCTCCCCAAAGTGCCTGAGCGCCGCTCTGTGCCAGGTCCCATTTCTCTG
CAGCACTGGCCCCCTTGGTGACACACATTCCCTTCGTGGGCCCTGTCTTCTCTTGACGCCCCCAAACTGGGAC
CGAATGACCCTGGGAAGGGGAAGTTGGGTAGGTTGGGGATGGGGCAGAGGTCTGGATCTGGGATCGCCCTTGGCT
GAAAGTTTAGCCTTTTTTAGATTGAGAGATACAGAGCCGGCTTAGAGAACAGCTGTTGGGGGAGAAGAGGGCACCC
CTCATCTTGAAACTGCTCTTATTGTGCCAATATGCCCTCCAAACCTCCCAGGATTCAAAGCTAGGTTTGGCTG
TCTGTGACTTACGGGACCGTCTGCTGAGAAATTGCACTGAAGAGATGCCCCACCTCTGGTTGGGCCTGGGGGT
GCCTGGCCTTCCGAAACTAAAAGAGTGGGTGGGAAGACTAGTGAACCCAGTTCACGGATGGGGAAACAGGCCTG
AGGTCACATTTCACTTAGTGGTTGTGTTGGGACCAAAACCTGGGTGTCCTCACTGCTGAGTCCAGCCATGGTTTT
CAGGGGGACAGTGGACAGGGACTCAGAAATGTGGTGGGAGGGCCTCCCTGGCTTGGGAGACCGCTCTCTGCAAGG
GAGGGGGAGAGAAGCAGAGGGAGAGAGAAGGTGACACGGATGGAAGAGTGGGAAGGAGCTGGCTGGCTCAGCCC
TAGGCTGTCCCTGCAGCCAGGGTGTCCGGGGGCTGGCCAGTCAGAGAAAGGGGGCCATGGACTGCTGTGGCAAAAT
AGGGAGACAAGGAGACAGACCCTGCAGTCCTACTACAGTCTGGAGTGGGGTCCTAAGAAGAAGGGTCCACCTCA
ACCCCTGTGAGTGTCCACTGTGGGTGGGGGCTGACCCCTGCCCTTTGATTGTCATTCTCTGGGAAGCCCAGTCT
CAGTCCCTCCCCAACACTGTCCACACTGCCCCCTCCCCACTGTTTATTTATTGCACGGATCTAAGTTATTCTCCC
CAGCCAGAGCCCCAGCTCCTGCTCCCTGGGAAAAGTGGCGTATGGCCCTGAGCTGGGCTTTATATTATATATCTG
CAAATAAATCACATTTTATCTTATATTTAGGGAAAGCCGGAGAGCAACAACAAAAAATGTTTAAGCCGGGCGCGG
TGGCTCACATCTGTAATCCAGCACTTTGGGAGTCCAAGGAGGGGGATCGCTTGAGTCCAGGAGTTTGAGACCAG
CCTGGACAACATGGTGAAACCCCGTCTCTACAAAAAATACAAAAATTAGCCATGCATGGTGGCTCATGCCTGTAG
TCCCAGCTACTTGGGAGGCTGAGGCAGGAGGATCACTTAAGCCCAGAAGGCAGAGGTGTAGTGAGCTGAGATCG
CACCCTGCACTCCAGCCTGGGCAACATAGCAAAATCCTGTCTCAAAAAAAGTTAAAAAATATTGCCCGGCTC
CTAGAATTTATTTATTTCTGACTTACAGCAAGCGAGTTATCGTCTTCTGTATTTTGTAGACTTTCTAAATAAAG
TCAAATTCCTTTCTTTTCCACAGAAAAA

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FIGURE 6053

MSVDPLSSKALKIKRESENTPHLSDEALMGLSVRELNRLRGLSAAEVTRLKQRRRTLKNRGYAASCRVKRVCQ
KEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGP
AHGPDPAHGPASCS

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FIGURE 6054

CGCCGGCGGGCGGGGAGACTCCGGGGCTGCGGGCGCCGCCCGCCCCGCGCAGAGTCCGGCTGCCGCGCATCGTC
CGCAGACGCCGCCACCGCCATGGGCTCCTGAGGCTAGCTTGTCACTTTCTGCAAAGGTTTCCCTCAGGGAGCCTC
CTGCTGCCAGGCACCATGACAGTGAGGGGGGATGTGCTGGCCCCGGATCCAGCGTCGCCACGACCGCAGCAGCC
TCGCCCAGCGTCTCCGTGATCCCCGAGGGGAGCCCCACTGCCATGGAGCAGCCTGTGTTTCTGATGACAACTGCC
GCTCAGGCCATCTCTGGCTTCTTCGTGTGGACGGCCCTGCTCATCACATGCCACCAGATCTACATGCACCTGCGC
TGCTACAGCTGCCCCAACGAGCAGCGCTACATCGTGCGCATCCTCTTCATCGTGCCCATCTACGCCCTTGACTCC
TGGCTCAGCCTCCTCTTCTTACCAACGACCAGTACTACGTGTACTTCCGGCACCCTCCGCGACTGCTATGAGGCC
TTGGTCATCTATAATTTCTGAGCCTGTGCTATGAGTACCTAGGAGGAGAAAGTTCCATCATGTGCGGAGATCAGA
GGAAAACCCATTGAGTCCAGCTGTATGTATGGCACCTGCTGCCTCTGGGGAAAGACTTATTCCATCGGATTTCTG
AGGTTCTGCAAACAGGCCACCCCTGCAGTTCTGTGTGGTGAAGCCACTCATGGCGGTGAGCACTGTGGTCTCTCCAG
GCCTTCGGCAAGTACCGGGATGGGGACTTTGACGTACCCAGTGGCTACCTCTACGTGACCATCATCTACAACATC
TCCGTACGCTGGCCCTCTACGCCCTCTTCTCTTCTACTTCGCCACCCGGGAGCTGCTCAGCCCCCTACAGCCCC
GTCCTCAAGTTCTTCATGGTCAAGTCCGTATCTTTCTTTCTTCTGGCAAGGCATGCTCCTGGCCATCCTGGAG
AAGTGTGGGGCCATCCCCAAAATCCACTCGGCCCGCGTGTGCGGTGGGCGAGGGCACCCTGGCTGCCGGCTACCAG
GACTTCATCATCTGTGTGGAGATGTCTTTGACGCCCTGGCCCTGCGGCACGCCTTCACCTACAAGGTCTATGCT
GACAAGAGCTGGACGCACAAGGCCGCTGTGCCCCCATGAAGAGCATCTCCAGAGCCTCAAGGAGACCATGAAC
CCGCACGACATCGTGAGGACGCCATCCACAACCTCTCACCTGCCCTACCAGCAGTACAGCAGCAGTCCACCCTG
GAGCCTGGGGCCCACTGGCGTGGTGGCGCCACGGCCCTCTCCCGCTCCACAGCCTCAGTGGCGCCCGGACAAAC
GAGAAGACTCTCCTGCTCAGCTCTGATGATGAATTCAGGTGCGGGCTGCAGTGGCGGAAGTGTGGCGCCATAG
CCACGGTCAGGCTGTGCCCCACCTCCAGCCTCACCACAGGCAGGAGGCAGCTGGCACAGTGTACAGCGCCCT
TTATTTATTGGACCAGAAACACTCACATGTCACTTCCAGAGGAACGGGGGACAGCCAGGCTCGCCCCATGGGCCTT
CAGGAATATTTATACATGGCCAGCCTGCACTGCCCGGGCGAGGGCAGAGGACACTGGGAGCAAGGCTTATGCC
CTGCTGCCCGTCTGTGCTGGGGCATGCTGGGACCAGCCGACCCAGGCCCAATGCTTGTGTGTGGACCAGCG
GCTGCAGCCTTCTAGCCCTCCTCCCCGCGAGACTCTCAGGCTGAGGTGCGCAAGCCGTGGCTCCCCACACACC
GTGCAATACCCTGTCTGACCTGGGCTCTTCCCGCCTGCATCCCTCCCCTGTCCACCTTTGTCCAGTGTAGATT
ACCTCACCCTGGGCGAGGAGTGGGGATGTGGGCGCTCTGTGGTCTCCCTCCTGACCCAGGCCTCTGTGGCATGC
TGCAAGGATCAGAGCCAGACACCAGGAGTCACAGGCCCCACCCAGGAAGGGCATTACAGGGCCCTGGGCACCGCT
TCTGTTGAAGCAGGGGCTTCTGGGCCCCCTGGGTATCCCCACCTGTGCTGGCCACACCTCTGCCTGCCTCATGCC
CTTCCCCCTGGCTACCAAGGACAGCCCACAGCCCGCACTGCCGGCTCACTTGGGTCTTCTCTGATAGCTTTGG
GCAGAGCCCTTGCTTCTGGCTGCTTCAGGGCTCAGGGGCTCCAGCCCTCCTTCCAGGCTGATGCTGGGTCTCT
CTCTCTTTTGGGGCTTCTCCCTCCCGTTTTCAGGGGAAAGGTCTGAGTCTCCACGTTTCAGACCAGCTTCTGGGG
GAAGGCAGTCCGGCAGGGAGACCGGGAGGGGTGGCCACACAGTGGGAGCTGGGAGGTGGGGGAATGGTCCCAG
ACTCCTCTCGGGGCCCCATCCACACAGGGCCTGGTGTCTACCCCATCTGGCCCTGGCCCATCTCTTCTGTGC
CTTAGTCACATATGAAAGCGCCCCCTCCCTGGCTCPCCATCTGTCCACACGCTCCCTGGGGCTCTTAGTTCAGCT
GCTGGCACTCGCAGGATCCTGCAGTGTGGGCCAGAGCCCTTGACAGGCCTCAGGAGTGGTCAGGACCACCAA
GCCCCCTCTCTCCCCCTCCACACCTCTAGACCTGGGGCTCCGGAACCCCCAGCAGGCTGGGCTTATACTAGCTC
CTGACTTAGGAAGAGCCTCGTGTCAACAACAGTGTCCCTACAGGCAAAGTGTCTGGCATTAAACCCAGATTA
TCCCTGGGTTTGGGCTGCAGTCACTGGAGAAGCTGGTAGGGTAAGGGAGAGGGACCCTGCCGGTGTCACTGGG
GATTCTTTCTTTTGGTCTTCTCTGGAATGAACAGGTTCCCTCCCTGCCACCTGTGAGGAGAGTTGGGGCCAGCC
GTCTTCTGGCCTCCTTCTTCTCTGCTGGCAGAGGCCTGCATGTGGGTGCCAGAGGCCAGCTCTCCCCCTCCAT
CTTGGGGGGGCGGAGCAGTTGGGCCCAAGCTGCCCGGAGGGTGGGTGCAGACACAGGCTGAGGACCAGCCCTGG
CCCTGCCCCGCCATCTGCTTACCAAGCTGTCTCTCCACCGTGGCTTCCCTTCTCCCTCCAGGCCAAAGTGCTG
CTGATTCCCACTCCCTTGGTTTTGCGCTGCCAGCGTTGCTGTTTGGCTGGAGGGTGGGGGGAGCTCAGTGGCAG
GGAATCAGCGGTCCGTGGGGTCTGGGGACGGGAACATGTGCCGACCGCTCCATCCCCCTCTCTCTCTTAGGAT
GCATAACCTACCTGTCTTTTTTTTTTAAATTTCTTTCCAGGTAGAGTAGCTCTTTGTACATAAAGAATACTT
GAAAAATTAATTGTATGATGATGAGAAGACAGAGTCTCCTAGTTTTGTATCTTGTGTATGACTGCCATGAGTT
CCACCAGAAAGCCACTCTATTTTGGTCCCTGTGACATTTTAAATGCGTGACAGAAGTGAGCAAATAAAGTGAGGA
AGAAATCTATATATGAGATAATATAGATTGTATTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6055

MEQPVFLMTTAAQAISGFFVWTALLITCHQIYMHLRCYSCPNEQRYIVRILFIVPIYAFDSWLSLLFFTNDQYYV
YFGTVRDCYEALVIYNFLSLCYEYLGGESEIMSEIRGKPIESSCMYGTCCCLWGKTYSIGFLRFCKQATLQFCVVK
PLMAVSTVVLQAFGKYRDGDFDVTSGYLYVTIIYNISVSLALYALFLFYFATRELLSPYSPVLKFFMVKSVIFLS
FWQGMLLAILEKCGAIPKIHSARVSVGEGTVAAGYQDFIICVEMFFAALALRHAFTYKVYADKRLDAQGRCAPMK
SISSSLKETMNPHDIVQDAIHNFSPAYQQYTQQSTLEPGPTWRGGAHGLSRSHSLSGARDNEKTLSSDDEF

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[illegible]

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FIGURE 6057

MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPMTMNLAQSLKFENGQWIAETGVSGGVDRREVQ
RLRRRNQQLEENNLLRLKVDILLDMLSESTAESHIMEKELDELRI SRKRK

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FIGURE 6058

GGCACGAGGCAGTCATGGCTGCCGCCGTCGCTGCTGCCGGTGCAGGGGAACCCAGTCCCCGGACGAATTGCTCC
CGAAAGGCGACGCGGAGAAGCCTGAGGAGGAGCTGGAGGAGGACGACGATGAGGAGCTAGATGAGACCCTGTCGG
AGAGACTATGGGGCCTGACGGAGATGTTTCCGGAGAGGGTCCGGTCCGCGGCCGGAGCCACTTTTGATCTTTCCC
TCTTTGTGGCTCAGAAAATGTACAGGTTTTCCAGGGCAGCCTTGTGGATTGGGACCACTTCCTTTATGATCCTGG
TTCTTCCCGTTGTCTTTGAGACGGAGAAGTTGCAAATGGAGCAACAGCAGCAACTGCAGCAGCGGCAGATACTTC
TAGGACCTAACACAGGGCTCTCAGGAGGAATGCCAGGGGCTCTACCCTCACTTCCTGGAAAGATCTAGATTGTTA
TTGCTGTTTGAGCTGTCTCAGTGGGATAAGTTTGAAATTCAGTGTGTGAACTGCTGATAATTGGATTTTTTTT
TTTTTAACCTTTGGCACATTGATCTATCTAAACCCGGTGGGGAGAATTATCCCCACATTGTCTCATGGAAAGACTC
AACTTGCAACTGTGCCCTCCACACTATCCTTACTTCIGTCTCCACTCTGATACCAGAGTGCAGCCATGCAGACGG
TTATTCCAGCTCTGGTCACCCGACTCCTTTTACCAAATTGCTCCTAACTGGAAGATCTCACTTTCCCTTGTGGG
GTAGGAACCGATGCCAGTGGGAGGGATGTGCCCTGACCATTACGACTGTTTTTTTTTTTTTTTTTAAAGAATG
GAGTTGTTGGGGCGGGACATGCACACAATGTGAAACAGACAAAATGCATTACACCTGTAGTGTAAGTGGCCACT
ATGAATCCCTATGTATGAGAGGAGGGAGGCAGGCTGCAGCTTCAGCCACAGAATGGGGACTATGGAAGACAGCAG
GAGCTCATTTCCTCTGCACATTTTGGCTGTTAGACCTGTGTGTGTGTTTAAAAAAGAGAAGTCAGTGCTCACTT
TTTGTATTTAAATATTAAAAATGATTCCAAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 6059

MAAAVAAAGAGEPQSPDELLPKGDAEKPEEELEEDDDDEELDETLSERLWGLTEMFPERVRSAGATFDLSLFVAQ
KMYRFSRAALWIGTTSFMIILVLPVVFETEKLOMEQQQLQQRQILLGPNTGLSGGMPGALPSLPGKI

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FIGURE 6060

ACTTTAAAGAGGGCTGCTCAACTGCAAGGACGCTGTAAGCAGGAAGAGAAGCCACAGCGCTTCAGAAAAGAGTGG
GACAGGGACAAGCATATCTAAGAGGCTGAACATGAATCCACAGATCAGAAACCCGATGAAGGCAATGTATCCAGG
CACATTCTACTTCCAATTTAAAAACCTATGGGAAGCCAACGATCGGAACGAAACTTGGCTGTGCTTCACCGTGGA
AGGTATAAAGCGCCGCTCAGTTGTCTCCTGGAAGACGGGCGTCTTCCGAAACCAGGTGGATTCTGAGACCCATTG
TCATGCAGAAAGGTGCTTCCTCTCTTGGTTCTGCGACGACATACTGTCTCCTAACACAAAGTACCAGGTCACCTG
GTACACATCTTGGAGCCCTTGCCCAGACTGTGCAGGGGAGGTGGCCGAGTTCTGGCCAGGCACAGCAACGTGAA
TCTCACCATCTTCACGCCCCGCTCTACTACTTCCAGTATCCATGTTACCAGGAGGGGCTCCGCAGCCTGAGTCA
GGAAGGGGTCGCTGTGGAGATCATGGACTATGAAGATTTTAAATATTGTTGGGAAAACCTTGTGTACAATGATAA
TGAGCCATTCAAGCCTTGGAAGGGATTAAAAACCAACTTTCGACTTCTGAAAAGAAGGCTACGGGAGAGTCTCCA
GTGAGGGGTCTCCCTGGGCCTCATGGTCTGTCTCCTCTAGCCTCCTGCTCATGCTGCACGGGCCTCCCTCCACC
CTGGACCCGCTCTGTTTCTGCCTGGTCATCCTGAGCCCCCTCCTGGCCTCAGGGCCATTCCACAGTGCTCCCTGC
CTCACCCTTCTCTCCTCGCTCTTCCAGACTCTTCTGAGAGGCTCCTTTCTGCCTCCATGGCTATCCATCCACC
CCCACAGACCCCGTTCCCTCCAGCCTGCGTGCCCCTAACCTGGCTTTTCCCATCTCCCCAGCATAACCAAATCTTA
CTAAACTCATCCTAGGCTGGGCATGGTGACTCACGCCTGTAATCCCCCAGCAATTTGGGAGGCAAAGGTGGGAGA
ATCGCGTGAGCCCAGGAGTTCAGACCAGGCTGGGTCACATGACAAAGCCCCATCTCTACAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAG

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FIGURE 6061

CTCTACCGGCGGGATTGTGATGGCGTGATGTCTCACAGAAAGTTCTCCGCTCCCAGACATGGGTCCCTCGGCTTCC
TGCTTCGGAAGCGCAGCAGCAGGCATCGTGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCC
ACCTCACAGCCTTCCTGGGATACAAGGCTGGCATGACTCACATCGTGCGGGAAGTCGACAGGCCGGGATCCAAGG
TGAACAAGAAGGAGGTGGTGGAGGCTGTGACCATTGTAGAGACACCACCCATGGTGGTTGTGGGCATTGTGGGCT
ACGTGGAAACCCCTCGAGGCCTCCGGACCTTCAAGACTGTCTTTGCTGAGCACATCAGTGATGAATGCAAGAGGC
GTTTCTATAAGAATTGGCATAAATCTAAGAAGAAGGCCTTTACCAAGTACTGCAAGAAATGGCAGGATGAGGATG
GCAAGAAGCAGCTGGAGAAGGACTTCAGCAGCATGAAGAAGTACTGCCAAGTCATCCGTGTCATTGCCACACCC
AGATGCGCCTGCTTCCTCTGCGCCAGAAGAAGGCCACCTGATGGAGATCCAGGTGAACGGAGGCACTGTGGCCG
AGAAGCTGGACTGGGCCCCGCGAGAGGCTTGAGCAGCAGGTACCTGTGAACCAAGTGTTTGGGCAGGATGAGATGA
TCGACGTATCGGGGTGACCAAGGGCAAAGGCTACAAAGGGGTACCAGTCGTTGGCACACCAAGAAGCTGCCCC
GCAAGACCCACCGAGGCCTGCGCAAGGTGGCCTGTATTGGGGCATGGCATCCTGCTCGTGTAGCCTTCTCTGTGG
CACGCGCTGGGCAGAAAGGCTACCATCACCGCACTGAGATCAACAAGAAGATTTATAAGATTGGCCAGGGCTACC
TTATCAAGGACGGCAAGCTGATCAAGAACAATGCCTCCACTGACTATGACCTATCTGACAAGAGCATCAACCCCTC
TGGGTGGCTTTGTCCACTATGGTGAAGTGACCAATGACTTTGTATGCTGAAAGGCTGTGTGGTGGGAACCAAGA
AGCGGGTGCTCACCCCTCCGCAAGTCCTTGCTGGTGCAGACGAAGCGGCGGGCTCTGGAGAAGATTGACCTTAAGT
TCATTGACACCACCTCCAAGTTTGGCCATGGCCGCTTCCAGACCATGGAGGAGAAGAAAGCATTTCATGGGACCAC
TGAAGAAAGACCGAATTGCAAAGGAAGAAGGAGCTTAATGCCAGGAACAGATTTTGCAGTTGGTGGGGTCTCAAT
AAAAGTTATTTTCCACTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6062

MSHRKFSAPRHGSLGFLPRKRSSRHRGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVREVDRPGSKV NKKEVVEA
VTIVETPPMVVVGIVGYVETPRGLRTFKTVFAEHISDECKRRFYKNWHKSKKKAF TKYCKKWQDE DGKKQLEKDF
SSMKKYCQVIRVIAHTQMRLLEPLRQKKAHLM EIQVNGGTVAEKL DWARERLEQQVPVNQVFGQDE MIDVIGVTG
KGYKGVTSRWHTKKLPRKTHRGLRKVACIGAWHPARVAFS VARAGQKGYHHRTEINKKIYKIGQGYLIKDGKLIK
NNASTDYDLSDKSINPLGGFVHYGEVTNDFVMLKGCVVGT KKRVLTLRKSLLVQTKRRALEKIDLKFIDTTSKFG
HGRFQTMEKKAFMGPLKKDRIAKEEGA

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FIGURE 6063

CCCGCAGGGGTTCTCCAAGATGGCGGCGCAGAGGAGGAGCTTGCTGCAGAGTGAGCAGCAGCCAAGCTGGACAG
ATGACCTGCCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGATGGCAAGGGCA
CTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACCTGCTTCTGTATGGGGTCTTCA
ACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGA
ATGCCGAGCACGCCGAGGCCGATGTGCGGCGTGTGCTGCTGCAGGCCCTTCGATGTGGTGGAGAGGAGCTTCCTGG
AGTCCATTGACGACGCCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGC
TGCCTCCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTCGGGAGGGGCCATGGCCG
TTGTGGCGGTCCTTCTCAACAACAAGCTCTACGTGCGCAATGTGCGGTACAAACCGTGCACCTTTTATGCAAATCGA
CAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTCTTCCGTCTTT
CGCAGCTGGGCTTGGATGTCTGGAAAGATCAAGCAGGTGGGGATCATCTGTGGGCAGGAGAGCACCCGGCGGATCG
GGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCTGCCAAGTCCAAACCAATCATCGCAG
AGCCAGAAATCCATGGGGCACAGCCGCTGGATGGGGTGACGGGCTTCTTGGTGTGATGTCCGAGGGGTTGTACA
AGGCCCTAGAGGCAGCCCATGGGCCCTGGGCAGGCCAACAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCA
AGCAGACCTCCCTGGACGCAGTGGCCCCAGGCCGTCGTGGACCGGGTGAAGCGCATCCACAGCGACACCTTCGCCA
GTGGTGGGGAGCGTGCCAGGTTCTGCCCCGGCACGAGGACATGACCCTGCTAGTGAGGAACCTTTGGCTACCCGC
TGGGCGAAATGAGCCAGCCACACCGAGCCAGCCAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCAT
ACTCAGCGCCAGAGCACCAGCAAGACCAGCGTGACCCTCTCCCTTGTCTATGCCCTCCAGGGCCAGATGGTCA
ACGGGGCTCACAGTGCTTCCACCCTGGACGAAGCCACCCCAACCCTCACCAACCAAGCCCCGACCTTAACCTGC
AGTCCACCAACACGCACACGCAGAGCAGCAGCTCCAGCTCTGACGGAGGCCTCTTCCGCTCCCGGGCCGCCACT
CGTCCCCGCTGGCGAGGACGGTCTGTGTTGAGCCCTATGTGGACTTTGCTGAGTTTTACCGCCTCTGGAGCGTGG
ACCATGGCGAGCAGAGAGCTGGTGACAGCACCGTAGGGCAGCCGGAGAATGCAGCCCAAGCAGGGCCTGGCATGGG
GCAGGACAGGGTCCAGCCTTTTCTTAACATCTGCCTGTGCCACAACGGCCAGCAGGTGCCCATCTCTGCCCCAC
AGCAGACTCTGTCCCATGGCTCTCCGGGCAGTAGAGTGTGTGAGTGCAGACTGGACCTGTGGTTCATACCTTGTC
ACCACCCGGAAGCTGAAGGCCACTTCTCCAGATGGCCTCAGCCAGGACCATCGCCCTTCTCAGAGCAGAGG
GCCAGGTATAGAAACCGCAGTGGGCCTGCAAGCCGCCGAGCCTCCCGAGCAGCCTCTACAGAGCAGGAAGAGG
CGCCCTGTGAACCCTGAGTGTTGCAGGCCAGCCCTGCTGTCCCAAGCCACCCCTCTCCACCATCACC
TCCCTCACCTCGGGACAGTAGCCCTCCACTTCTCCAGCCTCTCAGCCCTGTGCTCCTGCATCCAGAGTGGAACCC
AGGCTGGTGTCCGCATCTGTCCCTGGGCCCCACCCCTGGACCTGCCTTGGTTGTGTCTGTGTAAACGTTCA
GGAGGACCAGGGCAGCATCTGGGGCCTGGGATGGCCACAGAAGGGGCAGGCCAGGTGGAAGGAGCCAGGGGGAA
GTGGTCTAAGAGACCTGGAAGTGCAGAGGATGGCGGCCCTGGGCTTCCCGAGAGCCAGGCGTGCGGGAGAGGTGA
GGAAGTGGCCCCGGTGGGCTGAGGCAGGGGCCGCTGTGCTCAGGCCGTGAGCCAGGGTGAGCTGGTGCCTGCCTTGC
ATTTTCTTCTGGTGTGTGAAGACCATAGGCTGGCAGGCAGCTGAGATGAAGTGTCTTTACCACTGATGAGGGG
CCTCTGCCGGCTGAGGGTAGCAAGCAGGGGTTGTGAGTCAGGCTGGGGGACTTGTGTTGAAAGAAAGAGGAGTGGA
AAATGGTTCCAGGAGGGAAGAGGTTCTTTGAGACACAGTACCCTGGGAGGCATAGGAGAAGGGTCGGGCCAGCCC
AGCCCAGGGCCTGAGTTAGACTATTTCCACATGTTCTCTGCCTTCAGTGGGGAGGGGGTGCCACCAGGGCTGTC
GGCCAGGATTGCCACTCCTGTTTCAGAGGAAGCAGGCCGAGAGACTTGACCTTGGCCAAGCCACACAATCAGTG
GGGAGCCAGAGCTCAGACCTGAGCCATTTTGTGAGTATCCAGGACCCCCGGATTCTCCAGCCCTCCCCATCT
CCCAGTCTCCCTGCCCCCATGCCCCAGACCGGCCACAGGGACTAGCCGCTGTGCGACAGCCTCTGGGGTGTCT
TGGTCTCTGCGAAGTCAAAGGCCTGACAGCTCTGTGGCCTGGGAATCCATTTTCTGCGGCAGAGCAGGGCCTGG
TGTGGAACCAGGGAGCTGTGGGAAGCCACAGCAGAAATGGAAGAAAAACAGGTCTCAGCCAGGGTCTCGCTCA
CTCCCTCACTCCCCACTTTGAAGCCATCTCTGTTCTGCAGGTGAGAGGATTTAAAGTCAGTCACAAAGGCTTGGG
AACAAAGGAATTC

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FIGURE 6064

TGATGGGTGACCCGGGGAGAGGTACCCGGCCAGAGGCGAGTCCTGCGGAGTGGTAGCGCGCACGGCCTGCGGTGT
GACACCCAGCCCCCTGCCAGTCCCCCATGGCCCCGTGGAGCCGAGAGGCGGTGCTGAGTCTCTATCGGGCTCTGTT
GCGCCAGGGCCGACAGCTTCGCTACACTGATCGAGACTTCTACTTTGCCTCCATCCGCCGTGAATTCCGAAAAAA
TCAGAAGCTAGAGGACGCTGAGGCCCCGGGAGAGGCAGCTGGAGAAGGGCCTGGTCTTTCTCAACGGCAAATTGGG
GAGGATCATTTAGGATCCTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACACTCCTGCTCTCTTCCATCCC
CATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGAC
AATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGGCTGGTGCTGGGGGTGGGTGGAGCGGCCATG
CTGGGCATCGCCACGCTGGCAGTTAAGCGGATGTACGATCGGGCGATCAGTGCCCCCTACCAGCCCCACCCGCTG
AGCCATTGCGGGGAAAAGGAGCTGGGAAGAACCCAACCTGGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAG
ACGGGCCTGAGCCGGTCTTGCAGACCCCTTCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCCGCCC
CGGCCCAAGCCAGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAA
CTTCTTACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGAC
ATATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGTACTTGAGTGGC
AGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAACCTATTGTGCCCTTGTGCTGGAGCAGAAC
CTGTGGTCATGTATTCTTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTGGTGCGTCGTGAGAATCCA
GAGTACTTTCTCGTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCTCTCTCCAAAGACAGTCGCA
GATACATTTGAGAAGGTAGTGGCTGGCTCCATCAATTGGCCAGCCATAGGGTCCCTCTTGGACTATGTGATCCGC
CCGGCCCCACCCCCAGAAGCCCTCACACTGGAGGTGCAGTATGAGCGTGACAAACATCTCTTCATTGACTTCCTG
CCATCAGTGACCCTCGGTGACACAGTCTTGGTGGCCAAACCACACCGGCTAGCCCAGTATGACAACTGTGGCGG
CTGAGCCTGCGTCCCGGGAGACGGCACGCCTGCGGGCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGC
CTCAAGATCCTCAAGGCCATATGCAAGTCCACCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTC
ATCCTCCACTTGGCCCAGGAGGAGGCTGACTGGTCTCCGGATATGCTGGCCGACCGTTTCTGTCAGGCCTTGAGG
GGACTTATCAGCTACTTAGAGGCTGGAGTCTGCCCAGTGCCCTAAACCCCAAGGACAAGGCCTTGAAGGAACGC
AGCCTTAGACATCAGGTGAGGATGATGGAGGTAGACAGTCGACTGAATGTCAGCTGGAAAATCCAGTCACTAGTT
GGGGTTTGGTGGCCATGTTTTCTACCCAGACAGGCCCTGCTTTTCTAGGATGTGGCCTTAGAGCAAGAACAGACC
CAACAGCCAGCCCTTCATCCTCCAGCGTCTGCCATAGGAATGTGAGAGGGGTGTTTGTGAGCGCTCCGGGCACG
GCCAGAGGGCAAGTGAGCATGCACGGACCTCTTCCCCCTGTCCTGTTTCTCACCAGCACCTGGGGAGATCGGTG
CTACCAAGGAAGAGAGCACACAGATAAGACAGAGGGGAGGAGGTGGGCATTTCTACATTCTCCTTGTTTGCCG
CTGCTGAGATTGCAGTATTTATTGCAATGTAAATGTATCCTGAAGGTGGGGAGGAATGTTAATCTACCATGTCC
GTGTGTC

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FIGURE 6065

GAAAACTCAGGCTTGGAACAGCACCTCGCGCGATAACCTGGCGTCTCGGCCTTCACAATAAAAACTCTTCGCCG
GAAAACGACCTTTCCCCGCCCACTGCGCTGACACCGGAAGCGAGGCGTGTCTGGGAGATCACTCCGCGCTCCGGC
GGCGAAGGAAAGAACGGACTCTGATCATAGAAGCCTAGTAAAGTAGTACACCTCTCTCCTTTCTGTAGGCCATAA
GAACAACTCCTTTTCTCGTCACAGCTACGCCCTGGGCATAAACGGTTGGGGCGTCAAAGGGAGGGAGGGAAGGG
AGCGGGCGGGAGGAGACGGTCACGTGGTCGCGGCGGAAGGATGCGTCTGTGCTGCGTCCCCATAGAGACGAAGTC
TATAAAGGGCCGGCGGGCGGCCACGGCAGCCATTTCTACTTTGCCCCGCCACAGATGTAGTTTTCTCTGCGCGTG
TGCGTTTTCCCTCCTCCCCGCCCTCAGGGTCCACGGCCACCATGGCGTATTAGGGGCAGCAGTGCCCTGCGGCAGC
ATTGGCCTTTGTCAGCGGCGGCAGCAGCACCAGGCTCTGTCAGCGGCAACCCCCAGCGGCTTAAGCCATGGCCAGCG
TTGCTGTAACCGACAAAGACACCTTCGAATTAAGCACATTCTCGATTCCAGCAAAGCACCGCAACATGACCGAA
ATGAGCTTCTGAGCAGCGAGGTGTTGGTGGGGGACTTGATGTCCCCCTTCGACCAGTCGGGTTTGGGGGCTGAA
GAAAGCCTAGGTCTCTTAGATGATTACCTGGAGGTGGCCAAGCACTTCAAACCTCATGGGTTCTCCAGCGACAAG
GCTAAGGCGGGCTCCTCCGAATGGCTGGCTGTGGATGGGTTGGTCAGTCCCTCCAACAACAGCAAGGAGGATGCC
TTCTCCGGGACAGATTGGATGTTGGAGAAAATGGATTTGAAGGAGTTCGACTTGGATGCCCTGTTGGGTATAGAT
GACCTGGAACCATGCCAGATGACCTTCTGACCACGTTGGATGACACTTGTGATCTCTTTGCCCCCTAGTCCAG
GAGACTAATAAGCAGCCCCCCCAGACGGTGAACCCAATTGGCCATCTCCAGAAAAGTTTAACAAAACCCGACCAG
GTTGCCCCCTTACCTTCTTACAACCTCTTCCCCCTTTCCCCAGGGGTCTGTCTCCACTCCAGATCATTCCCTTT
AGTTTAGAGCTGGGCAGTGAAGTGGATATCACTGAAGGAGATAGGAAGCCAGACTACACTGCTTACGTTGCCATG
ATCCCTCAGTGCTATAAAGGAGGAAGACACCCCTTCAGATAATGATAGTGGCATCTGTATGAGCCCAGAGTCCTAT
CTGGGGTCTCCTCAGCACAGCCCCCTTACCAGGGGCTCTCCAAATAGGAGCCTCCCATCTCCAGGTGTTCTCTGT
GGGTCTGCCCGTCCCAAACCTTACGATCCTCCTGGAGAGAAGATGGTAGCAGCAAAGTAAAGGGTGAGAACTG
GATAAGAAGCTGAAAAAATGGAGCAAAACAAGACAGCAGCCACTAGGTACCGCCAGAAGAAGAGGGCGGAGCAG
GAGGCTCTTACTGGTGAGTGCAAGAGCTGAAAAAGAAGAACGAGGCTCTAAAGAGAGGGCGGATTCCCTGGCC
AAGGAGATCCAGTACCTGAAAGATTTGATAGAAGAGGTCCGCAAGGCAAGGGGAAGAAAAGGGTCCCCTAGTTG
AGGATAGTCAGGAGCGTCAATGTGCTTGTACATAGAGTGCTGTAGCTGTGTGTTCCAATAAATTATTTTGTAGGG
AAAGT

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FIGURE 6066

GTCGGTCGCAGCCCGCTCGGGCCCGTTTCGCGCCCGTCTGTGCGCCACGTCCCGCGGGGTGGCGGGCGCGCTGCG
GCCCTTGGTGCAGGCCACGGTGCCCGCCACCCCGGAGCAGCCTGTGTTGGACCTGAAGCGGCCCTTCCTCAGCCG
GGAGTCGCTGAGCGGCCAGGCCGTGCGCCGGCCTTTGGTCGCCTOCGTGGGCCTCAATGTCCCTGCTTCTGTTTG
TTATTTCCACACAGACGTCAAGGTGCCTGACTTCTCTGAATACCGCCGCTTGAAGTTTTAGATAGTACGAAGTC
TTCAAGAGAAAGCACCAGGGCTAGGAAAGGTTTCTCCTATTTGGTAACTGGAGTAACTACTGTGGGTGTCGCATA
TGCTGCCAAGAATGCCGTCACCCAGTTCGTTTCCAGCATCAGTGCTTCTGCTGATGTGTTGGCCCTGGCGAAAAT
CGAAATCAAGTTATCCGATATTCCAGAAGGCAAGAACATGGCTTTCAAATGGAGAGGCAAACCCCTGTTTGTACG
TCATAGAACCCAGAAGGAAATTAAGCAGGAAGCTGCAGTTGAATTATCACAGTTGAGGGACCCACAGCATGATCT
AGATCGAGTAAAGAAACCTGAATGGGTTATCCTGATAGGTGTTTGCACTCATCTTGGTTGTGTACCCATTGCAAA
TGCAGGAGATTTTGGTGGTTATTACTGCCCTTGCCATGGGTACACTATGATGCATCTGGCAGGATCAGATTGGG
TCCTGCTACTCTCAACCTTGAAGTCCCCACGTATGAGTTACCCAGTGACGATATGGTGATTGTTGGTTAGAGACT
TGGACTCAAGTCATAGGCTTCTTTCAGTCTTTATGTCACCTCAGGAGACTTATTTGAGAGGAAGCCTTCTGTACT
TGAAGTTGATTTGAAATATGTAAGAATTGATGATGTATTGCAAACATTAATGTGAAATAAATTGAATTTAATGT
TGAATACTTTTCAAGCATTCACTTAATAAAGCCACTGTTAAGCACTGTTATGCTCAGTCATACACGCGAAAGGTAC
AACGTCTTTTAGCTAATTCTAATTAAAAATTACAGACTGGTGTACAAGATACTTGTG

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FIGURE 6067

MSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIKQEAAVELSQLRDPQHDLDRVKKPEWVILI
GVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPATLNLEVPTYEFTSDDMVIVG

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FIGURE 6068

CCATGGCGGCTGGAGGCGATCATGGTTGCGCCGACAGCTACCGCTCACCTCTTGCTCCCGCTATGCCAGCCCGG
AGATGTGCTTCGTGTTTAGCGACAGGTATAAAATCCGGACATGGCGGCAGCTGTGGCTGTGGCTGGCGGAGGCCG
AGCAGACATTGGGTTTGCCTATCACAGATGAACAAATCCAGGAGATGAAATCAAACCTGGAGAACATAGACTTCA
AGATGGCAGCTGAGGAAGAGAAACGTTTACGACATGATGTGATGGCTCACGTGCACACATTTGGCCACTGCTGTC
CAAAAGCTGCAGGCATTATTACCTTGGTGCTACTTCTTGCTATGTTGGAGACAATACTGACTTGATTATTCTTA
GAAATGCACTTGACCTGCTTTTGCCAAAGCTTGCCAGAGTGATCTCTCGGCTTGCCGACTTTGCTAAGGAACGAG
CCAGTCTACCCACATTAGGTTTCACACATTTCCAGCCTGCACAGCTGACCACAGTTGGGAAACGTTGCTGTCTTT
GGATTGAGGATCTTTGCATGGATCTCCAGAACTTGAAGCGTGTCCGAGATGACCTGCGCTTCCGGGGAGTAAAGG
GTACCACTGGCACTCAGGCCAGTTTCTGTCAGCTCTTTGAGGGAGATGACCATAAGGTAGAGCAGCTTGACAAGA
TGGTGACAGAAAAGGCAGGATTTAAGAGAGCTTTTCATCATCACAGGGCAGACATATACAGAAAAGTGGATATTG
AAGTACTGTCTGTGCTGGCTAGCTTGGGGGCATCAGTGCACAAGATTTGCACCGACATACGCCTCCTGGCAAACC
TCAAGGAGATGGAGGAACCCCTTTGAAAAACAGCAGATTGGCTCAAGTGCATGCCATATAAGCGGAATCCCATGC
GTTTCAAGCGTTGCTGCAGTCTTGCCCGCCACCTGATGACCTTGTCATGGACCCGCTACAGACAGCATCTGTCC
AGTGGTTTGAACGCACACTGGATGATAGTGCCAAACCGACGGATCTGTTTGGCCGAGGCATTTCTTACCGCAGATA
CTATATTGAATACGCTGCAGAACATTTCTGAAGGATTGGTCGTGTACCCCAAAGTAATTGAACGGCGCATTTCGGC
AAGAGCTGCCTTTTCATGGCCACAGAGAACATCATCATGGCCATGGTCAAAGCTGGAGGTAGCCGCCAGGATTGCC
ATGAGAAAATCAGAGTGCTTTCTCAGCAGGCAGCTTCTGTGGTTAAGCAGGAAGGGGGTGACAATGACCTCATAG
AGCGTATCCAGGTTGATGCCTACTTCAGTCCCATTCACTCCCAGTTGGATCATTTACTGGATCCTTCTTCTTTCA
CTGGTCGTGCCTCCCAGCAGGTGCAGAGATTCTTAGAAGAGGAGGTGTATCCCCTGTTAAACCATATGAAAGCG
TGATGAAGGTGAAAGCAGAATTATGTCTGTAGAGTTGGAAGAGAATTAAACGAAAATCATTGTTAATTGCTGAGG
CATGAAAATTGTGTTACTATAACGCCTTATTTACCTCGAGAATTGTTACCTTAAATTAGTACAGCACTTTCTTC
TTCCCATGGTGCTTTCCTGTTTCTCAGTCTCACATTCTCAACAAGGCAAAAACAAAGAGCGTTGAAGTTGACTC
TGCTCTTGATAGTAAATGTAGTTCATACTTGAAAAA

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FIGURE 6069

MAAGGDHGSPDSYRSPLASRYASPEMCFVFS DRYKFRTWRQLWLWLAEAEQTLGLPITDEQIQEMKSNLENIDFK
MAAEEEKRLRHDVMAHVHTFGHCCPKAAGIIHLGATSCYVGDNTDLII LRNALDLLLLPKLARVISRLADFAKERA
SLPTLGFTHFQPAQLTTVGKRCCLWIQDLCMDLQNLKRVRDDLRFGRGVKGTTGTQASFLQLFEGDDHKVEQLDKM
VTEKAGFKRAFIITGQTYTRKVDIEVLSVLASLGASVHKICTDIRLLANLKEMEPEFEKQQIGSSAMPYKRNP MR
SERCCSLARHLMTLVMDPLQTASVQWFERTLDDSANRRICLAEAFLTADTILNTLQNI SEGLVVYPKVIERRIQ
ELPFMATENIIMAMVKAGGSRQDCHEKIRVLSQQAASVVKQEGGDNDLIERIQVDAYFSPIHSQLDHLLDPSSFT
GRASQQVQRFLEEEVYPLLKPYESVMKVKAELCL

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FIGURE 6070

GGGTGGGAGGAGCCAGCGGGCCGGGAGGTTCTAGTCTGTTCTGTCTTGCGGCAGCCGCCCCCTTCTGCGCGGTCA
CGCCGAGCCAGCGCCTGGGCTGGAACCGGGCCGTAGCCCCCCCCAGTTTCGCCCCACCACCTCCCTACCATGGACC
CCCGCAAAGTGAACGAGCTTCGGGCCCTTTGTGAAAAATGTGTAAGCAGGATCCGAGCGTTCTGCACACCCGAGGAAA
TGCGCTTCCTGAGGGAGTGGGTGGAGAGCATGGGTGGTAAAGTACCACCTGCTACTCAGAAAGCTAAATCAGAAG
AAAATACCAAGGAAGAAAAACCTGATAGTAAAGAAGGTGGAGGAAGACTTAAAGGCAGACGAACCATCAAGTGAGG
AAAGTGATCTAGAAATTGATAAAGAAGGTGTGATTGAACCAGACACTGATGCTCCTCAAGAAATGGGAGATGAAA
ATGCGGAGATAACGGAGGAGATGATGGATCAGGCAAATGATAAAAAAGTGGCTGCTATTGAAGCCCTAAATGATG
GTGAACTCCAGAAAGCCATTGACTTATTCACAGATGCCATCAAGCTGAATCCTCGCTTGGCCATTTTGTATGCCA
AGAGGGCCAGTGTCTTCGTCAAATTACAGAAGCCAAATGCTGCCATCCGAGACTGTGACAGAGCCATTGAAATAA
ATCCTGATTACAGCTCAGCCTTACAAGTGGCGGGGGGAAAGCACACAGACTTCTAGGCCACTGGGAAGAAGCAGCCC
ATGATCTTGCCCTTGCCGTGTAATTGGATTATGATGAAGATGCTAGTGCAATGCTGAAAGAAGTTCAACCTAGGG
CACAGAAAATTGCAGAACATCGGAGAAAGTATGAGCGAAAACGTGAAGAGCGAGAGATCAAAGAAAGAATAGAAC
GAGTTAAGAAGGCTCGAGAAGAGCATGAGAGAGCCCAGAGGGAGGAAGAAGCCAGACGACAGTCAGGAGCTCAGT
ATGGCTCTTTTCCAGGTGGCTTTCCTGGGGGAATGCCTGGTAATTTTCCGGAGGAATGCCTGGAATGGGAGGGG
GCATGCCCTGGAATGGCTGGAATGCCTGGACTCAATGAAATTTCTAGTGATCCAGAGGTTCTTGCAGCCATGCAGG
ATCCAGAAGTTATGGTGGCTTTCAGGATGTGGCTCAGAACCCAGCAAATATGTCAAATACCAGAGCAACCCAA
AGGTTATGAATCTCATCAGTAAATTGTCAGCCAAATTTGGAGGTCAAGCGTAAATGTCCTTCTGATAAATAAAGCC
CTTGCTGAAGGAAAAGCAACCTAGATCACCTTATGGATGTGCAATAATACAAACCAGTGACCTCTGACCTTCT
CATCAAGAGAGCTGGGGTGCTTTGAAGATAATCCCTACCCCTCTCCCCAAATGCAGCTGAAGCATTTTACAGTG
GTTTGCCATTAGGGTATTCATTCAGATAATGTTTTCTACTAGGAATTACAACTTTAAACACTTTTTAAATCTT
CAAAATATTTAAACAAATTTAAAGGGCCTGTTAATCTTATATTTTCTTTACTAATCATTTTGGATTTTTTTC
TTTGAATTATTGGCAGGGAATATACTTATGTATGGAAGATTACTGCTCTGAGTGAATAAAAGTTATTAGTGCGA
GGCAAACATAACTCATTGAGGATAAAGTTTGTGTTGGATATGTGGTTCTGATGCATTTTGACTTGTCTTTTA
AATGCTTTATCTTTTTCTTTAAAGATTATTTCAATAAACTAATTGGGACCACCGTATTTCAAGTAGGACCTGG
GTAGGGAATTGGAAGTACTTGGCAGGGCAGCAGCAATCTTGCTGTGTTTGATATAACATGCATCCTTGGGCAGGTT
GCCCTTAAATCTTACACTGTGGTGAAGGGATGTTTTTTTGTAAATGCTGCAGTAGAGTTGGAGTACTTAGTTCTC
TTGTTGTCCAGTATATCTAATAAGTGTTTTTCATATTATTTCCACGTAAGGGAAATAAGGTAGTACTTTTCTTTT
TATATTTCTATGCTTAAATCTCTTTTCTAGTCAAAAATTGCCCAAATCTGTGTTTCTGCTTCTGCTTGCTACAT
TTGTCTCCCTTACTTTTCTTGAGCTAAAGACAGGCTTTTCCACCGCATCATCACTGCTATCATCATTAAACAGC
GTAATTATACAAGCATATTTAATGCTGAGTTTAAATTTAATATGTAATACATATGGTAATTGTAGGGTAATACCCA
CAACAACCTGTAGTTTCTTACTTGGCCAAGAGAATGCTTATTTAAGTGTTAGACTTCCATTCTGGCAAAATCTTGC
CTTATCAGAAGACATTGGAAAGAGGGATTCCCTTTGGTGTTTGGTCTTCTACTTAGAAAAACCTATTGCAGTTAG
TTTATCTTGTAGTATTCTTGTATTCTGAAGATAAGGTTTGAATTAAATTGATACACAGAGGGGAACCGA
TTTTTTTTATCCAATGTGAATTATAAATGAGATAATCCACAGTTATTCATTGTGGAGTTGTTGAGACTATGAAAG
ACTCATTGTCTTTGTATTGAGCTCTTAAATAGTGTAACATATCCCCACCTCTGCTTGCTTTCTTTCCCTCCCT
CCAATGATAAAGAAAATGATAAATTTTCTGTTGTGCATTCAATTCTTATTTTAAATAAGACTAAGTATAGGCATT
GTACCTGACATTGTACGTTTCTACCAGTGTTTCAATTTAAAGTGCTAGTGTTTAAAAACATTTTCAAGGGATAA
GGCCTTCTGTACTTTGCTTATTTGAAGAATCAGTGGTAGGAGCAGTGAAGTAAATCTATGGAGTACATTTCTAA
AATACCACATTTCTGAAATCATAAATAAGTTTATTTCAGGTTCTAACCTTTGCTGTACACAAGCAGACAGAAATG
CATCTGTTACATAAATGAGAAAAAGCTATTATGCTGATGGAGCATGCTTTTTAAATCCTTTAAAAACACTCACCA
TATAAATTGCAATTTGAGCTTGTGTGTTCTTTTGTAAATGTGTAGAGTTCTCCTTTCTCGAAATTGCCAGTGTGT
ACTTGGCTTAACTCAAGAACAGTTTCTTCTGGATTCTTATTTGATTTATTTAACCTAATTATATTCTAATATTG
CAAATATTACCATAAGTGGTAAAAAGTAAATTCCTCTCTGAAAAA

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FIGURE 6071

MDPRKVNELRAFVKMCKQDPSVLHTEEMRFLREWVESMGGKVPPATQKAKSEENTKEEKPDSKKVEEDLKADEPS
SEESDLEIDKEGVIEPDTDAPOEMGDENAEITEEMMDQANDKKVAAIEALNDGELQKAIDLFTDAIKLNRLAIL
YAKRASVFKLQKPNAAIRDCDRAIEINPDSAQPYKWRGKAHRLLGHWEEAAHDLALACKLDYDEDASAMLKEVQ
PRAQKIAEHRRKYERKREEREIKERIERVKKAREEHERAQREEEARRQSGAQYGSFPGGFPGMPGNFPGMPGM
GGMPGMAGMPGLNEILSDPEVLAAMQDPEVMVAFQDVAQN PANMSKYQSNPKVMNLI SKLSAKFGGQA

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FIGURE 6072

CCCAAAATGGCGGCAGCGGATGGATGTGGATACCCCGAGCGGCACCAACAGCGGCGCGGGCAAGAAGCGCTTTGAA
GTGAAAAAGTGGAATGCAGTAGCCCTCTGGGCCTGGGATATTGTGGTTGATAACTGTGCCATCTGCAGGAACCAC
ATTATGGATCTTTGCATAGAATGTCAAGCTAACCAGGCGTCCGCTACTTCAGAAGAGTGTACTGTTCGCATGGGGA
GTCTGTAACCATGCTTTTCACTTCCACTGCATCTCTCGCTGGCTCAAAACACGACAGGTGTGTCCATTGGACAAC
AGAGAGTGGGAATTCCAAAAGTATGGGCACTAGGAAAAGACTTCTTCCATCAAGCTTAATTGTTTTGTTATTCAT
TTAATTGACTTTCCCTGCTGTTACCTAATTACAAATTGGATGGAAGTGTGTTTTTTCTGCTTTGTTTTTTCAGT
TTGCTGTTTCTGTAGCCATATTGTATTCTGTGTCAAATAAAGTCCAGTTGGATTCTGG

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FIGURE 6073

MAAAMDVDTPSGTNSGAGKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCECQANQASATSEECTVAWGVC
NHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH

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FIGURE 6074

GCTCTTTCTCAGTGACCGGGTTCTAGGCTTAGGCGCAGACGGGTTAGGGGAGCCAACATGCCAGTGGCCCCGGAGC
TGGGTTTGTGCGCAAACTTACGTGACCCCGCGGAGATCCTTTGAGAAATCTCGTCTCGACCAAGAGCTGAAGCTG
ATCGAAGAGTATGGGCTCCGGAATAAACGTGAGGTCTGGAGGGTCAAATTTACCCTGGCCAAGATAGAGGATTTC
TTAGAGAGACGCCCTACAGACCCAGGTCTTCAAGCTGGGCTTGGCCAAGTCCATCCACCACGCTCGCGTGCTGATC
CGCCAGCGCCATTTCAAGGTCCGCAAGCAGGTGGTGAACATCCCGTCCTTCATTGTCCGCCTGGATTCCCAGAAG
CACATCGACTTCTCTCTGTGCTCTCCCTATGGGGGTGGCCGCCCCGGCCGCGTGAAGAGGAAGAATGCCAAGAAG
GGCCAGGGTGGGGCTGGGGCTGGAGACCACAAGGAGGAGGATTAAGCCACCTGTCCCTCCTGGGCTGCTGCATT
GTCTAGTTTTCTGCCAAATAAACAGGATCAGCGCTTTAAAAAAAAAAAAA

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FIGURE 6075

ATGGCCTCGGAAGACATTGCCAAGCTGGCAGAGACACTTGCCAAGACTCAGGTGGCCGGGGGACAGCTGAGTTTC
AAAGGCAAGAGCCTCAAACCTCAACACTGCAGAAGATGCTAAAGATGTGATTAAAGAGATTGAAGACTTTGACAGC
TTGGAGGCTCTGCGTCTGGAAGGCAACACAGTGGGCGTGGAAGCAGCCAGGGTCATCGCCAAGGCCTTAGAGAAG
AAGTCGGAGTTGAAGCGCTGCCACTGGAGTGACATGTTACGGGAAGGCTGCGGACCGAGATCCCACCAGCCCTG
ATCTCACTAGGGGAAGGACTCATCACAGCTGGGGCTCAGCTGGTGGAGCTGGACTTAAGCGACAACGCATTTCGGG
CCCAGCGGTGTGCAAGGCTTCGAGGCCCTGCTCAAGAGCTCAGCCTGCTTCACCCTGCAGGAACCTCAAGCTCAAC
AACTGTGGCATGGGCATTGGCGGGCGGCAAGATCCTGGCTGCAGCTCTGACCGAATGTCACCGGAAATCCAGTGCC
CAAGGCAAGCCTCTGGCCCTGAAGGTCTTTGTGGCTGGCAGAAACCGTCTGGAGAATGATGGCGCCACTGCCTTG
GCAGAAGCTTTTAGGGTCATCGGGACCCCTGGAGGAGGTCCACATGCCACAGAATGGGATCAACCACCCTGGCATC
ACTGCCCTGGCCCAGGCTTTTCGCTGTCAACCCCTGCTGCGGGTCATCAACCTGAATGACAACACCTTCACTGAG
AAGGGCGCCGTGGCCATGGCCGAGACCTTGAAGACCTTGCGGCAGGTGGAGGTGATTAATTTGGGGACTGCCTG
GTGCGCTCCAAGGGTGCAGTTGCCATTGCAGATGCCATCCGCGGCGGCCTGCCAAGCTAAAGGAGCTGAACCTG
TCATTCTGTGAAATCAAGAGGGATGCTGCCCTGGCTGTTGCTGAGGCCATGGCAGACAAAGCTGAGCTGGAGAAG
CTGGACCTGAATGGCAACACCCCTGGGAGAAGAAGGCTGTGAACAGCTTCAGGAGGTGCTGGAGGGCTTCAACATG
GCCAAGGTGCTGGCGTCCCTCAGTGATGACGAGGACGAGGAGGAGGAGGAGGAAGGAGAAGAGGAAGAAGAGGAA
GCAGAAGAAGAGGAGGAGGAAGATGAGGAAGAGGAGGAAGAAGAGGAGGAGGAGGAGGAAGAAGAGCCTCAGCAG
CGAGGGCAGGGAGAGAAGTCAGCCACGCCCTCACGGAAGATTCTGGACCCTAACACTGGGGAGCCAGCTCCCGTG
CTGTCTCTCCACCTCCTGCAGACGTCTCCACCTTCTGGCTTTTCCCTCTCCAGAGAAGCTCCTGCGCCTAGGG
CCCAAGAGCTCCGTGCTGATAGCCAGCAGACTGACACGTCTGACCCCGAGAAGGTGGTCTCTGCCTTCTTAAAG
GTGTCTCTGTGTTCAAGGACGAAGCTACTGTGAGGATGGCAGTGACAGGATGCAGTAGATGCCCTGATGCAGAAG
GCTTTCAACTCCTCGTCCTTCAACTCCAACACCTTCTCACCAGGCTCCTCGTGCACATGGGTCTGCTCAAGAGT
GAAGACAAGGTCAAGGCCATTGCCAACCTGTACGGCCCCCTGATGGCGCTGAACCACATGGTGCAGCAGGACTAT
TTCCCAAGGCCCTTGACCCCTGCTGCTGGCGTTCGTGACCAAGCCCAACAGCGCCCTGGAATCCTGCTCCTTC
GCCCGCCACAGTCTGCTGCAGACGCTGTACAAGGCT**TAG**

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FIGURE 6076

MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLNTAEDAKDVIKEIEDFDSLEALRLEGNTVGVEAARVIAKALEK
KSELKRCHWSDMFTGRLRTEIPPALISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSACFTLQELKLN
NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVVFVAGRNRENDGATALAEAFRVIGTLEEVMHPQNGINHPGI
TALAQAFVNP LLRVINLNDNTFTEKGAVAMAETLKT LRQVEVINFGDCLVRSKGAVAIADAIRGGLPKLKEINL
SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCEQLQEVLEGFNMKV LASLSDDEDEEEEEEEEEEEEE
AEDE
PKSSVLIAQQDTISDPEKVVS AFLKVSSVFKDEATVRMAVQDAVDALMQAFNSSFNSNTFLTRLLVHMGLLKS
EDKVKAIANLYGPLMALNHMVQDYFPKALAPLLLA FVTKPNSALESCSFARHSL LQTLYKV

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FIGURE 6077

CGGGAGGCGAGGTGCGCGAGCCGAGTCCGGGGCACGATGTCCGACGCGGGCGGGCGGAAAGAAGCCGCCTGTGGAC
CCGCAGGCAGGACCCGGTCCGGGGCCGGGGCGCGCAGCTGGGGAAAGGGGCCTGTCTGGGGTCCTTCCCCCTGGTC
CTGAAGAAGCTGATGGAGAACCCCCCGCGCGAGGCGCGCCTCGATAAGGAAAAGGGGAAGGAAAAGCTGGAGGAG
GACGAGGCGCGCAGCCGCCAGCACCATGGCTGTCTCAGCCTCCCTCATGCCACCCATCTGGGACAAGACCATCCCA
TATGATGGCGAATCTTTCCACCTGGAGTACATGGACCTGGATGAGTTCCTGCTGGAGAATGGCATCCCCGCCAGC
CCCACCCACCTGGCCCAACCTGCTGCTGCCTGTAGCAGAGCTAGAAGGGAAGGAGTCTGCCAGCTCTTCCACA
GCATCCCCACCATCCTCCTCCACTGCCATCTTTAGCCCTCTGAAACCGTGTCCAGCACAGAATCTTCCCTGGAG
AAGGAGAGGGGAGACTCCAGTCCCATCGACCCCAATTGTGTGGAAGTGGATGTGAACTTCAATCCGGACCCCGCC
GACCTGGTGCTCTCCAGTGTGCCAGGCGGGGAGCTCTTCAACCCTCGGAAGCACAAGTTTGCTGAGGAGGACCTG
AAGCCCCAGCCTATGATCAAAAAGGCCAAGAAGGTCTTTGTCCCCGACGAGCAGAAGGATGAAAAGTACTGGACA
AGACGCAAGAAGAACAACGTGGCAGCTAAACGGTCACGGGATGCCCGGCGCCTGAAAGAGAATCAGATCACCATC
CGGGCAGCCTTCCTGGAGAAGGAGAACACAGCCCTGCGGACGGAGGTGGCCGAGCTACGCAAGGAGGTGGGCAAG
TGCAAGACCATCGTGTCCAAGTATGAGACCAAATACGGGCCCTTGTAACCCGTGCCCCCGCCCGGGCGGGGTAC
TGCTGCACCTCAGACCTCTGCCTG

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FIGURE 6078

MSDAGGGKKPPVDPQAGPGPGGRAAGERGLSGSFPLVLKKLMENPPREARLDKEKGKEKLEEDEAAAASTMAVS
ASLMPPIWDKTIPYDGESFHLEYMDLDEFLLENGIPASPTHLAHNLLLPVAELEGKESASSSTASPPSSSTAIFQ
PSETVSSTESSLEKERETPSPIDPNCVEVDVNFNPDADLVLSVPGGELFNPRKHKFAEEDLKPQPMIKKAKKV
FVPDEQKDEKYWTRRKNNVAAKRSRDARRLKENQITIRAAFLEKENTALRTEVAELRKEVGKCKTIVSKYETKY
GPL

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FIGURE 6079

CATCTTTGT CAGTGCACAAAATCGCGCCCTACAGCCTACTGGTGA CTGGCTGCAGAAAGCTCTGGGTGTGCGGC
AGTACCATGTGGCCTCAGTCCTGTGCCAACGGGCCAAGGTGGCGATGAGCCACTTTGAGCCCAACGAGTACATCC
ATTATGACCTGCTAGAGAAGAACATTAACTTGTTCGCAAACGACTGAACCGGCCGCTGACACTCTCGGAGAAGA
TTGTGTATGGACACCTGGATGACCCCGCCAGCCAGGAAATTGAGCGAGGCAAGTCGTACCTGCGGCTGCGGCCGG
ACCGTGTGGCCATGCAGGATGCGACGGCCAGATGGCCATGCTCCAGTTTCATCAGCAGCGGGCTGTCCAAGGTGG
CTGTGCCATCCACCATCCACTGTGACCATCTGATTGAAGCCCAGGTTGGGGGCGAGAAAGACCTGCGCCGGGCCA
AGGACATCAACCAGGAAGTTTATAATTTCTGGCAACTGCAGGTGCCAAATATGGCGTGGGCTTCTGGAAGCCTG
GATCTGGAATCAATCACCAGATTATTCTGGAAGAACTATGCGTACCCTGGTGTCTTCTGATTGGCACTGACTCCC
ACACCCCAATGGTGGCGCCTTGGGGGCATCTGCATTGGAGTTGGGGGTGCCGATGCTGTGGATGTCATGGCTG
GGATCCCCTGGGAGCTGAAGTGCCCCAAGGTGATTGGCGTGAAGCTGACGGGCTCTCTCTCCGGTTGGTCTCAC
CCAAAGATGTGATCCTGAAGGTGGCAGGCATCCTCACGGTGAAAGGTGGCACAGGTGCAATCGTGAATACACG
GGCCTGGTGTAGACTCCATCTCCTGCACTGGCATGGCGACAATCTGCAACATGGGTGCAGAAATTGGGGCCACCA
CTTCCGTGTTCCCTTACAACCACAGGATGAAGAAGTACCTGAGCAAGACCGGCCGGGAAGACATTGCCAATCTAG
CTGATGAATTCAAGGATCACTTGGTGCCTGACCCTGGCTGCCATTATGACCAACTAATTGAAATTAACCTCAGTG
AGCTGAAGCCACACATCAATGGGCCCTTACCCCTGACCTGGCTCACCTGTGGCAGAAAGTGGGCAAGGTGGCAG
AGAAGGAAGGATGGCCTCTGGACATCCGAGTGGGTCTAATTGGTAGCTGCACCAATTCAAGCTATGAAGATATGG
GGCGCTCAGCAGCTGTGGCCAAGCAGGCACTGGCCCATGGCCTCAAGTGCAAGTCCAGTTCACCATCACTCCAG
GTTCCGAGCAGATCCGCGCCACCATTGAGCGGGACGGCTATGCACAGATCTTGAGGGATCTGGGTGGCATTGTCC
TGGCCAATGCTTGTGGCCCCCTGCATTGGCCAGTGGGACAGGAAGGACATCAAGAAGGGGGAGAAGACACAATCG
TCACCTCCTACAACAGGAACCTTACGGGGCCGCAACGACGCAAAACCCCGAGACCCATGCCTTTGTACGTCCCCAG
AGATTGTACAGCCCTGGCCATTGCGGGAACCCCTCAAGTTCAACCCAGAGACCGACTACCTGACGGGCACGGATG
GCAAGAAGTTTCAAGGCTGGAGGCTCCGGATGCAGATGAGCTTCCCAAAGGGGAGTTTGACCCAGGGCAGGACACCT
ACCAGCACCCACCCAAGGACAGCAGCGGGCAGCATGTGGACGTGAGCCCCACCAGCCAGCGCCTGCAGCTCCTGG
AGCCTTTTGAACAAGTGGGATGGCAAGGACCTGGAGGACCTGCAGATCCTCATCAAGGTCAAAGGGAAGGTGTACCA
CTGACCACATCTCAGCTGCTGGCCCCCTGGCTCAAGTTCCGTGGGCACCTTGGATAACATCTCCAACAACCTGCTCA
TTGGTGCCATCAACATTGAAAACGGCAAGGCCAATCCGTGCGCAATGCCGTCACTCAGGAGTTTGGCCCCGTCC
CTGACACTGCCCCGCTACTACAAGAAACATGGCATCAGGTGGGTGGTGATCGGAGACGAGAACTACGGCGAGGGCT
CGAGCCGGGAGCATGCAGCTCTGGAGCCTCGCCACCTTGGGGGCCGGGCCATCATCACCAGAGCTTTGCCAGGA
TCCACGAGACCAACCTGAAGAAACAGGGCCTGCTGCCTCTGACCTTCGCTGACCCGGCTGACTACAACAAGATTTC
ACCTGTGGACAAGCTGACCATTCAGGGCCTGAAGGACTTCACCCCTGGCAAGCCCCCTGAAGTGATCATCAAGC
ACCCCAACGGGACCCAGGAGACCATCCTCCTGAACCACACCTTCAACGAGACGCAGATTGAGTGGTTCCGCGCTG
GCAGTGCCCTCAACAGAATGAAGGAAGTGAACAGTGAAGGGCAGTGCCCTCCCCGCGCGCTGGCGTCAAGTTTCAG
CTCCACGTGTGCCATCAGTGGATCCGATCCGTCCAGCCATGGCTTCCTATTCCAAGTAGTGTAACCC

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FIGURE 6080

MAPYSLLVTRLQKALGVRQYHVASVLCQRAKVAMSHFEPNEYIHYDLLEKNINIVRKRLNRPLTLSEKIVYGHLD
DPASQEIERGKSYLRLRPDRVAMQDATAQMAMLOFISSGLSKVAVPSTIHCDHLIEAQVGGEKDLRRAKDINQEV
YNFLATAGAKYGVGFWKPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELK
CPKVI GVKLTGSLSGWSSPKDVILKVAGILTVKGGTGAIVEYHGPVDSISCTGMATICNMGAIEGATTSVFPYN
HRMKKYLKSTGREDIANLADEFKDHLVPDPGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGKVAEKEGWPL
DIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLKCKSQFTITPGSEQIRATIERDGYAQILRDLGGIVLANACGP
CIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAAGTLKFNPETDYLTGTDGKKFRLE
APDADELPGGEFDPGQDTYQHPPKDSSGQHVDSPTSQRLQLEPFDKWDGKDLEDLQILIKVKGKCTTDHISAA
GPWLKFRGHLDNISNNLLIGAINIENGKANSVRNAVTOEFGVPDTARYYKKHGIRWVIGDENYEGSSREHAA
LEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIQGLKDFTPGKPLKCIKHPNGTQE
TILLNHTFNETQIEWFRAGSALNRMKELQQ

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FIGURE 6081

GCGGGCCGTTATCCATTTGTGTTGTTCCGAGCTAGGCCTGGCCTCGTCCCGCTTCGCTCGGTGGTCTCGCGCG
CCCCATAGCCTTGCTAGAGGGTTAGCGTTAGCCTTAAGTGTGCGAATCCGAGGAGCAGCGACAGACTCGAGACC
ACGCTCCTTCCTCGGGAAGGAGGCGGCACCTCGCGTTTGAGGCCCCGCTGCGTTTGAGGCCCCGCTGCGCTTGCG
GCCCCGCTGCGCTTGAGGCCTGTCTGCGTTTGAGATCTCATTGGGCGTGATTGAGGAATTTGGGGAGGTTTTTG
GCGGTATTGAGGACGAGGGGGTCCGTTAGTCAGCATAGAATCCTGGAGCGGGAATCCCTCACCCTCTAAATGGCG
TCGGGGGCGGGACCTCCGGGATCTGGCTTCCGCGGGCCGCCGCCGCCCTGAAACGTGAGGGATAGCTGAGATGA
GGCAGCTACTGGGATGGCCCCCATGCGCATTACATGCAGTCCGACTGCCGAGCTTTCGAGGCAGCAGGATTTAC
CGTCCACATTCCTCACTACTAACCAGCTTTTAGAACAGATCTCACAAGAACCTAGAGGTGCGGTATTTTTTCGAT
TTAAATTTGCCTGTTACTGACGTTAACGTCTTTCGCCCTAGTGAGCAGTAGCCAACATGTCAGGGTGGGAGTCATA
TTACAAAACCGAGGGCGATGAAGAAGCAGAGGAAGAACAAGAAGAGAACCTTGAAGCAAGTGGAGACTATAAATA
TTCAGGAAGAGATAGTTTGATTTTTTGGTTGATGCTCCAAGGCTATGTTTGAATCTCAGAGTGAAGATGAGTT
GACACCTTTTGACATGAGCATCCAGTGTATCCAAAGTGTGTACATCAGTAAGATCATAAGCAGTGATCGAGATCT
CTTGGCTGTGGTGTCTATGGTACCGAGAAAGACAAAATTCAAGTGAATTTTAAAAATATTTACGTCTTACAGGA
GCTGGATAATCCAGGTGCAAAACGAATCTAGAGCTTGACCAGTTTAAGGGGCGCAGGGGACAAAACGTTTTCCA
AGACATGATGGGCCACGGATCTGACTACTCACTCAGTGAAGTGCTGTGGGTCTGTGCCAACCTCTTTAGTGATGT
CCAATTCAAGATGAGTCATAAGAGGATCATGCTGTTACCAATGAAGACAACCCCATGGCAATGACAGTGCCAA
AGCCAGCCGGGCCAGGACCAAGCCGGTGATCTCCGAGATACAGGCATCTCCTTGACTTGATGCACCTGAAGAA
ACCTGGGGGCTTTGACATATCCTTGTCTACAGAGATATCATCAGCATAGCAGGATGAGGACCTCAGGGTTCA
CTTTGAGGAATCCAGCAAGCTAGAAGACCTGTTGCGGAAGGTTGCGGCCAAGGAGACCAGGAAGCGAGCACTCAG
CAGGTTAAAGCTGAAGCTCAACAAAGATATAGTGATCTCTGTGGGCATTTATAATCTGGTCCAGAAGGCTCTCAA
GCCTCCTCCAATAAAGCTCTATCGGGAAACAAATGAACAGTGAAAACCAAGACCCGACCTTTAATACAAGTAC
AGGCGGTTTGCTTCTGCCTAGCGATACCAAGAGGTCTCAGATCTATGGGAGTCGTCAGATTATACTGGAGAAAGA
GGAAACAGAAGAGCTAAAACGGTTTGATGATCCAGGTTTGATGCTCATGGGTTTCAAGCCGTTGGTACTGCTGAA
GAAACACCATACCTGAGGCCCTCCCTGTTGCTGTACCCAGAGGAGTCGCTGGTGATTGGGAGCTCAACCCTGTT
CAGTGCTCTGCTCATCAAGTGTCTGGAGAAGGAGGTTGCAGCATTGTGCAGATACACACCCCGCAGGAACATCCC
TCCTTATTTTGTGGCTTTGGTGCCACAGGAAGAAGAGTTGGATGACCAGAAAATTCAGGTGACTCCTCCAGGCTT
CCAGCTGGTCTTTTACCCTTTGCTGATGATAAAAGGAAGATGCCCTTTACTGAAAAATCATGGCAACTCCAGA
GCAGGTGGGCAAGATGAAGGCTATCGTTGAGAAGCTTCGCTTACATACAGAAGTGACAGCTTTGAGAACCCCGT
GCTGCAGCAGCACTTCAGGAACCTGGAGGCCCTTGGCCTTGGATTGATGGAGCCGGAACAAGCAGTGACCTGAC
ATTGCCCAAGGTTGAAGCAATGAATAAAAGACTGGGCTCCTTGGTGGATGAGTTTAAGGAGCTTGTTTACCCACC
AGATTACAATCCTGAAGGGAAAGTTACCAAGAGAAAACACGATAATGAAGGTTCTGGAAGCAAAAGGCCCAAGGT
GGAGTATTCAGAAGAGGAGCTGAAGACCCACATCAGCAAGGGTACGCTGGGCAAGTTCAGTGTGCCCATGCTGAA
AGAGGCCCTGCCGGCTTACGGGCTGAAGAGTGGTCTGAAGAAGCAGGAGCTGCTGGAAGCCCTCACCAAGCACTT
CCAGGACTGACACAGAGGCCGCGCGTCCAGCTGCCCTTCCGAGTGTGGCCAGGCTGCCTGGCCTTGTCTCAGCC
AGTTAAATGTGTTTCTCCTGAGCTAGGAAGAGTCTACCCGACATAAGTCGAGGGACTTTATGTTTTTGAGGCTT
TCTGTTGCCATGGTGATGGTGTAGCCCTCCCACTTTGCTGTTCTTTACTTTACTGCCTGAATAAAGAGCCCTAAG
TTTGTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6082

MSGWESYYKTEGDEEAEEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKI
ISSDRDLLAVVFGTEKDKNSVNFKNIIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVC
ANLFSVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDMHLKKPGGFDISLFYRDIISIAE
DEDLRVHFEESKLEDLLRKVRACKETRKALSRLLKLNKDIVISVGIYNLVQKALKPPPICKLYRETNEPVKTKT
RTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLV
IGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMFPTE
KIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRGLGSLVDEF
KELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELL
EALTKHFQD

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FIGURE 6083

ATCCGTGTCCTTGCGGTGCTGGGCAGCAGACCGTCCAAACCGACACGCGTGGTATCCTCGCGGTGTCCGGCAAGA
GACTACCAAGACAGACGCTATGACTGAGGCTGATGTGAATCCAAAGGCCTATCCCCTTGCCGATGCCCACCTCAC
CAAGAAGCTACTGGACCTCGTTCAGCAGTCATGTAACATAAGCAGCTTCGGAAAGGAGCCAATGAGGCCACCAA
AACCCTCAACAGGGGCATCTCTGAGTTTCATCGTGATGGCTGCAGACGCCGAGCCACTGGAGATCATTCTGCACCT
GCCGCTGCTGTGTGAAGACAAGAAATGTGCCCTACGTGTTTGTGCGCTCCAAGCAGGCCCTGGGGAGAGCCTGTGG
GGTCTCCAGGCCTGTCATCGCCTGTTCTGTCAACCATCAAAGAAGGCTCGCAGCTGAAACAGCAGATCCAATCCAT
TCAGCAGTCCATTGAAAGGCTCTTAGTCTAAACCTGIGGCCCTTGCCACGTGCTCCCTGCCAGCTTCCCCCTGA
GGTTGTGTATCATATTATCTGTGTTAGCATGTAGTATTTTCAGCTACTCTCTATTGTTATAAAATGTAGTACTAA
ATCTGGTTTCTGGATTTTTGTGTTGTTTTGTTCTGTTTTACAGGGTTGCTATCCCCCTTCTTTTCTCCCTCCC
TCTGCCATCCTTCATCCTTTTATCCTCCCTTTTTGGAACAAGTGTTTCAGAGCAGACAGAAGCAGGGTGGTGGCAC
CGTTGAAAGGCAGAAAGAGCCAGGAGAAAGCTGATGGAGCCAGGACAGAGATCTGGTTCCAGCTTTTCAGCCACTA
GCTTCCTGTTGTGTGCGGGGTGTGGTGGAAATTAAACAGCATTTCATTGTGTGTCCCTGTGCCTGGCACACAGAATC
ATTCATACGTGTTCAAGTGATCAAGGGGTTTCATTTGCTCTTGGGGGATTAGGTATCATTGGGGAGGAAGCATG
TGTTCTGTGAGGTTGTTTCGGCTATGTCCAAGTGTCGTTTACTAATGTACCCCTGCTGTTTGCTTTTGGTAATGTG
ATGTTGATGTTCTCCCCCTACCCACAACCATGCCCTTGAGGGTAGCAGGGCAGCAGCATACCAAAGAGATGTGCT
GCAGGACTCCGGAGGCAGCCTGGGTGGGTGAGCCATGGGGCAGTTGACCTGGGTCTTGAAAGAGTCGGGAGTGAC
AAGCTCAGAGAGCATGAAC TGATGCTGGCATGAAGGATTCCAGGAAGATCATGGAGACCTGGCTGGTAGCTGTAA
CAGAGATGGTGGAGTCCAAGGAAACAGCCTGTCTCTGGTGAATGGGACTTTCTTTGGTGGACACTTGGCACCAGC
TCTGAGAGCCCTTCCCCTGTGTCTGCCACCATGTGGGTGAGATGTACTCTCTGTACATGAGGAGAGTGCTAGT
TCATGTGTTCTCCATTCTTGTGAGCATCCTAATAAATCTGTTCCATTTTG

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FIGURE 6084

MTEADVNP KAYPLAD AHLT KKL D LVQQSCNYKQLRK GANEATKTLNRGISEFIVMAADAEPL EII LHL PLLCED
KNVPYVFVR SKQALGRACGVS RPVIACSVTIKEGSQLKQQIQSIQQS IERLLV

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FIGURE 6085A

CCGTCGGTGAGGCGGTGCCGGGCGGGGGTTGTCGGGTGTTCATGGGCGGTGGCGACGGCACCGCCCCCGCGTCTCC
CTGAGCGGGACGGCAGGGGGGGCTTCTGCGCTGAGCCGGGCGATGGACGACAGCGGGCGAGCTGGGTGGTCTGGAG
ACCATGGAGACCCTCACGGAGCTGGGCGACGAGCTGACCTGGGAGACATCGACGAGATGCTGCAATTTGTCAGT
AATCAAGTGGGAGAGTTCCCTGACTTGTTTTCAGAACAGCTGTGTAGCTCCTTTCTGGCAGTGGTGGTAGTGGT
AGCAGCAGCGGCAGCAGTGGCAGCAGCAGCAGCAGCAATGGCAGGGGCAGCAGCAGCGGAGCTGTGGACCTT
TCAGTGCAACGGTCATTACCCAGGTACATTACCTTCTTCTCTCCCTCGGCGGCCTCCCCACAGGCTCCAACT
CTGCAAGTCAAGGTTTCTCCACCTCAGTTCCCACCACACCCAGGGCAACTCCTATTCTTCAGCCCCGCCCCAG
CCCCAGCCTCAACCTCAAACCTCAGCTGCAACAACAGACGGTAATGATCACGCCAACATTACGACCACTCCGCAG
ACGAGGATCATCCAGCAGCCTTTGATATACCAGAATGCAGCTACTAGCTTTCAAGTCCTTCAGCCTCAAGTCCAA
AGCCTGGTGACATCCTCCCAGGTACAGCCGGTCACCATTACGACAGCAGGTGCAGACAGTACAGGCCAGCGGGTG
CTGACACAAACGGCCAATGGCAGCTGCAGACCTTGCCCCGGCTACGGTGCAGACAGTTGCTGCGCCACAGGTG
CAGCAGGTCCCGGTCTGGTCCAGCCTCAGATCATCAAGACAGATTCCCTTGTTTTGACCACACTGAAGACAGAT
GGCAGCCCTGTTATGGCTGCGGTCCAGAACCCGGCCCTCACCGCCCTCACCACCCCTATCCAGACGGCTGCCCTT
CAAGTACCAACCCTGGTGGGACAGTGGGACCATTCTGACCACAATGCCTGTAATGATGGGGCAAGAGAAAGTG
CCCATTAAAGCAGGTACCTGGGGGAGTCAAGCAGCTTGAGCCCCCAAAGAAGGAGAAAGGCGGACAACCCATAAT
ATCATTGAGAAACGATATCGCTCCTCCATCAATGACAAAATCATCGAATTGAAAGACCTGGTCATGGGGACAGAC
GCCAAGATGCACAAGTCTGGCGTTCTGAGGAAGGCCATTGATTACATCAAATACTTGACGACAGGTCAATCATAAA
CTGCGCCAGGAGAACATGGTGCTGAAGCTGGCAAATCAAAAGAACAAGCTTCTAAAGGGCATCGACCTAGGCAGT
CTGGTGGACAATGAGGTGGACCTGAAGATCGAGGACTTTAATCAGAATGTCCTTCTGATGTCCCCCCCAGCCTCT
GACTCAGGGTCCCAGGCTGGCTTCTCTCCCTACTCCATTGACTCTGAGCCAGGAAGCCCTCTATTGGATGATGCA
AAGGTCAAAGATGAGCCAGACTCTCCTCCTGTGGCGCTGGGCATGGTAGACCGCTCACGGATTCTTCTGTGTGTC
CTCACCTTCTGTGCTCTCCTTTAACCCCTGACTTCCCTGCTGCAGTGGGGAGGGGCCCCAGACTCTGACCAG
CACCCACACTCAGGCTCTGGCCGAGTGTCTGTGATTGAGTACAGGTCTGGGGGCTGGTTTACTGGATGATG
CCTACTCTTCTCTTATGGCTGGTAAATGGTGTGATTGTCTGAGCGTCTTGTGAAGCTGCTGGTTTCATGGGGAG
CCAGTGATCCGGCCACACTCGCGCTCCTCGGTACCTTCTGGAGGCACCGGAAACAGGCAGATCTGGATCTCGCC
AGAGGAGATTTTGAGCTGCTGCCGCCAACCTACAAACCTGCCTGGCAGTTTGGGGCCGGGCACTGCCACCTCC
CGCCTGGACCTGGCCTGCAGCCTCTCTGGAAGCTGATCCGCTACAGCCTGCAGAAGCTACGCCTGGTGCCTGG
CTGCTCAAGAAAGTCTTCCAGTGCCGGCGGGCCAGCCAGCCACTGAGGCAGGCTTTGAAGCAGGCTTCTGCAAGCTTCCAGGATCC
AGCGCCCGGGAGTGGGCTCTGGCCTATCACCGGCTGCACAGCTGCACATCACAGGGAAGCTTCTGCAAGCTTCCAGGATCC
GCCTGTTCCGATGTACACATGGCGTTGTGTGCCGTGAACCTGGCTGAATGTGCAGAGGAGAAGATCCACCGAGC
ACACTGGTTGAGATCCATCTGACTGCTGCCATGGGGCTCAAGACCCGGTGTGGAGGCAAGCTGGGCTTCTGGCC
AGCTACTTCTCAGCCGAGCCAGAGCCTGTGTGGCCCCGAGCACAGTGTGTCTCTGACTCCCTGCGCTGGCTC
TGCCACCCCTGGGCCAGAAGTTTTTTCATGGAGCGGAGCTGGTCTGTGAAGTCAGCTGCCAAGGAGAGTCTATAC
TGTGCCCAGAGGAACCCAGCTGACCCCATTCGCGAGGTCCACCAGGCTTCTGCAAGAACCTGCTGGAGCGAGCT
ATAGAGTCTTGGTGAACCTCAGGCCAAGAAGAAGGCTGGAGACCAGGAAGAAGAGAGCTGTGAATTCTCCAGT
GCTCTGGAGTACTTGAAATTACTTATTCTTTTGTGGACTCTGTGGGGTTATGAGCCCCCACTCTCCAGGAGC
TCCGTGCTCAAGTCCGCCCTGGGTCCAGACATCATCTGTGGTGGTGGACGTCTGCAATCACTGTGGCCATCAGC
TGGCTCCAGGGAGACGATGCAGCTGTGCGCTCTCATTTTACCAAAGTGGAACGCATCCCCAAGGCCCTGGAAGTG
ACAGAGAGCCCCCTGGTGAAGGCCATCTTCCATGCCTGCAGAGCCATGCATGCCTCACTCCCTGGGAAAGCAGAT
GGGCAGCAGAGTTCTTCTGCCATTGCGAGAGGGCCAGTGGCCACCTATGGAGCAGCCTCAACGTCACTGGGGGC
ACCTCTGACCTGCCCTCAACCACGTGGTCCAGCTGCTACCTGTGACCTGCTACTGTGCTACGGACAGCGCTC
TGGCAAAAACAGGCCAGTGCCAGCCAGGCTGTGGGGGAGACCTACCACGCGTCAGGCGCTGAACTGGCGGGCTTC
CAACGGGACCTGGGCAGCCTGCGCAGGCTGGCACACAGCTTCCGCCAGCATAACCGCAAGGTGTTCTGTCATGAA
GCCACCGTGCCTGATGGCAGGAGGCAGCCCCACCGCACCCACAGCTGCTGGAACACAGCCTGCGCGGGCGC
ACCACGCAGAGCACCAAGCACGGAGAGGTGGATGCCTGGCCCGGCCAGCGAGAGCGGGCCACCGCATCTGTG
GCCTGCCGCCACCTGCCCTCTCCTTCTCTCTCTCCCGGGCCAGCGGCAGTGTGCTGGCCGAAGCTGCCCGC
ACCCTGGAGAAGGTGGGCGACCGCGCTCCTGCAACGACTGCCAGCAGATGATTGTTAAGCTGGGTGGTGGCACT
GCCATTGCCGCTCTCTGACCACCAGGCTCAGCCACCCCTCCACCTCTCTCTCGATTCTCTCTCTCCCCCTCAG

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FIGURE 6085B

CATCTTCCCGCTGAGAGTGGTGGGGAAGAGCCTTGTCTTCTTAGCTGTACCTGCCGAGGCTTCTGGGCCACTCA
GGCCAGTGCACCCCTGGGCAGAGCCCCCTTAAAGCTGCTGTCACTAGATGCCCATGGTCCAGGGCCTGGTGGGCGT
GAGAGGATAGGTGGCAGGGCAGAAACTGGGCAGCCCTGACTTGATAGCAGCAGGGGGAGCTCCCAAGCTGCCAAG
CCCCTGCCCTCCAGCCTTCCCTGAGTTTCTCTCTCCTGAACCCCTACTCTCTCCTTTTTTGCTTCCTCAGTTTTTATCA
GGCTTTCTCTGGGGGACAGCAGTCTCTGAGCACCAGGGAGCAGTTGCCCTCAGGCCTGTGCCCAGCATGCCCTCC
CCTTTTTATACGAATGTTTTCTACCACTGTGCTTGGGTTTGCCATGATGCGAGGCTGAGTTGCTGTAGCGTCTTG
ATTCTCTCCCTGGGTCTGCGTTCCCTCCCCCTGGGCCTGACTGAGCCTGCTCATTGTTTTCCCTTTATTACACAG
GACAGCCAGGGGAGGAGGGGGGCCAGCCCTGGGAGGCTGGTGGGAGGCAGGGGGCAGGCCTGCGGATGCATGAA
ATAATGTTGGCATTATTTTTTAATTTTTTAAAAAATAAATGGTATCTTA

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FIGURE 6086

MDDSGELGGLETMETLTTELGDDELTLGDIIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGSGSSSGSSGSSSSSSSN'
GRGSSSGAVDP SVQRSFTQVTLP SFSPSAASPQAPTLQVKVSPTSVP TTPRATPILQPRPQPQPQPQTQLQQQTV
MITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPV TIQQQVQTVQAQRVLTQTANGTLQTLAP
ATVQTVAAPQVQVQVPLVQFPQIIKTDSLVLTTLKTGSPVMAAVQNPALTALTTP IQTAALQVPTLVGSSGTILT
TMPVMMGQEKVP IKQVPGGVKQLEPPKEGERRTTHNII EKRYRSSINDKIIELKDLMGTD AKMHKSGVLRKAID
YIKYLQQVNHLRQENMVLKLANQKNLLKGIDLGS LVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSID
SEPGSPLLDDAKVKDEPDSPPVALGMVDRSRILLCVLTFCLCSFNPLTSL LQWGGAHDSQHPHSGSGRSVLSFE
SGSGGWFDDWMMPTLLLWL VNGVIVLSV FVKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAANLQTC
LAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCR RATPATEAGFEDEAKTSARDAALAYHRLHQ
LHITGKLPAGSACSDVHMA LCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPE
HSAVPDSLRLWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADP I AQVHQAFCKNLLERAIESLVKPAK KAG
DQEEESCEFSSALEYLKLLHSFVDSVGVMSPPLSRSSVLKSALGPDII CRWWTSAITVAISWLOGDDAAVRSHFT
KVERIPKALEVTESPLVKAIFHACRAMHASLPGKADGQSS FCHCERASGHLWSSLNVS GGTSDPALNHVVQLLT
CDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQ RDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGGSPTRT
HQLLEHSLRRRTTQSTKHGEVD AWPQQRERATAILLACRHLPLSFLSSPGQRAVLLAEAA RTLEKVGDRRSCNDC
QQMIVKLGGGTAAIAS

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GATTTCGAGTCAAGAAGCGGCCGAGGCTCTGAACGCTTCGGTAGGATAAGTGTCCGCTGGGAGGGGGCTCTGCGGTTTTT
GGGGAGCCCAGGGCGGGAACCCGGACCCGGCTGGAAGTCCGGAGCCTGGCCGAGCCCCCGCTCCGCTCTTTT
TTGGTGACCTTAAGCCAGTGGCTGCCTTTTTTCTGAGCCCGGGCGGGGCCGAAGGCGGCCGTAGGCCCTCGGAGC
TCCAGCACTGCAGAGGGTGTGAGGTCTGACATCCAAGACACGTTGTTTTCTGATTTTCTGAAGGAAGAAGTGAAGC
TCCGGGAAGTGATGGCTGGGGATGGGGCGGGCAACTTTGGGACCGAGTGACGATCCACGCCTAAGGTTGAGGGC
GGCCGAGCTAGCCAGGCAGCCGTGACCCAGTGCTTTTTCAGACGTTTTCTTAGCTTCCAGAGCCCAACACATACAG
CTGATACACGCAGACCAGATCTGGTCAGGTCTCTCGGAAGCTGAGTCCAGAGCGATGCTGCTGAAGACAGTGCTCT
TGCTGGGACATGTGGCCAGGTGCTGATGCTGGACAATGGGCTCCTGCAGACACCACCCATGGGCTGGCTGGCCT
GGGAACGCTTCCGCTGCAACATTAAGTGTGATGAGGACCCAAAGAAGTGCATAAGTGAACAGCTCTTCATGGAG
TGGCTGACCGGATGGCACAGGATGGATGGCGGGACATGGGCTACACATACCTCAACATTGATGACTGCTGGATCG
GTGGTCGCGATGCCAGTGGCCGCCTGATGCCGGATCCCAAGCGCTTCCCTCATGGCATTCTTTTCTGGCTGACT
ACGTTCACTCCCTGGGCCTGAAGTTGGGTATCTACGCGACATGGGCAACTTCACCTGCATGGGTTACCCAGGCA
CCACACTGGACAAGGTGGTCCAGGATGCTCAGACCTTCGCCGAGTGGAAGGTAGACATGCTCAAGCTGGATGGCT
GCTTCTCCACCCCCGAGGAGCGGGCCCAGGGGTACCCCAAGATGGCTGCTGCCCTGAATGCCACAGGCCGCCCA
TCGCCCTTCTCCTGCAGCTGGCCAGCCTATGAAGGCGGCCTCCCCCAAGGTGAAGTACAGTCTGCTGGCGGACA
TCTGCAACCTCTGGCGTAAGTATGATGACATCCAGGACTCCTGGTGGAGCGTGCTCTCCATCCTGAATTGGTTCG
TGGAGCACCAGGACATACTGCAGCCAGTGGCCGGCCCTGGGCACTGGAATGACCTGACATGCTGCTCATTGGGA
ACTTTGGTCTCAGCTTAGAGCAATCCCGGGCCCAGATGGCCCTGTGGACGGTGCTGGCAGCCCCCTCTTGATGT
CCACAGACCTGCGTACCATCTCCGCCAGAACATGGACATTCTGCAGAATCCACTCATGATCAAAATCAACCAGG
ATCCCTTAGGCATCCAGGGACGCAGGATTACAAGGAAAATCTCTCATCGAAGTGTACATGCGGCCCTCTGTCCA
ACAAGGCTAGCGCCTTAGTCTTCTTCAGCTGCAGGACCGATATGCCTTATCGCTACCCTCTCCCTTGGCCAGC
TGAAGTTACACGGGTCTGTGATATATGAGGCCAGGACGTCTACTCAGGTGACATCATCAGTGGCCTCCGAGATG
AAACCAACTTCACAGTGATCATCAACCCTTCAGGGGTAGTGATGTGGTACCTGTATCCCATCAAGAAGCTGGAGA
TGTCCAGCAGTGAGGAGCTGGGACATGTGACAGGCTGTGGTGGCACCCTGAGCCTAGACCATGGAGCCTTGGC
ATGCCAGGGCAAGTGGGGAGGTTCTCTGCTCCCCAGGCCTGCTCGGTGACTGACCCCATCATACCCAAAGTGCA
ATCTCACGGCCAGGTTCTATGCCCTGTCCAAGCGTAAACCTCTTGGAACTTCTTTTGGGGCAATTTTCTGTG
GCCTTCTGGCCTCTACTTCCATGTGCGCAGCCCCACAGACGTTGCTGAGCAACTCGCCAGCCTCCTGAGCTCCA
TGCCCATCAGGACTCTAGCCTCTGACCTTGCTGTTGACTCTGAAATCAGGATTTGGAAGTTTTCGAATTAGGAGT
AGAGAGATCTGACCTCTTGCCAGGAATGCCCATGGATCATGTGATTGGCTTTTCTACCCATAGAGGGCCTTGCAG
CTGATACCACCTGGGAGTGAGGGTCACAAAGGAGACCTTGGCTCCCTCAGGTCACCAATAAACCTGTTCTTTAA
TCAAGTAGTTGTAATATGGACCTGGGGTACCTTTAGTTAGGGACTCTGGTGGCACTACACGGGGTCTGGATTCA
AATCTCACCTCTATGGATGATGTCTGGCATCGCTTGGCCCCCTCCTTTTCCAAAGTGACCAGAAAGATTGTAATTCC
TAGAGATGCCAGACTTGCCCTCACACCCAGGAGCTGCCCTGCTGTGCCTGGTATGCTGGCAGTGGTGATGGTGAC
AACACAATGAGGCCAAGTAGCAATGCTCCAGGTCTCGACGTTGTGCTCTGCCAGCAGTGGCCCTGGCCCAGC
ACCTCAGCTGCTCTTCTCTCTGGTGGCTCCACCCCAACCCCTACTTCTTTTCTTTTATTTCTCTCCCAACCTGG
CTGCAAAGGAGGTTTCATATTTCCAGATGTGTCCACAAACCTGTCCAGGAGTTGTGTCTTAAATTTGATTTCTGT
TCCCTTCTTCTTAAGGACAGGGGTAACAGTCAAAGTGAAGGAATGATGGGTTCTTGCTGTCTTGGTCCGT
ATTTCCCAAGCCCTCCTCTTTTAGCCAAGGCTACAGGGCACTTGCTTCCCTGGTGGCTCTCCCCTTTGGAGAGA
GCTAGTGGCAGAGCAACCTAGCTAGGTCTCCTTGGGCTTTGAATGCAGGAGCACCAGTGCCCCAGGCCTTGCA
CTGTGCTGCCCAAGGAGTATTTTCTGGTGGATCTCCCACTCCTCAGGTTCTGAGGTCTTGATTTAGGGT
ATGGTGTAAAACTTACATATGCACATTTTGTACATCAATTAAGATGATTGAAGCTTTACTGGTTAAGTATAGG
GTCACCAGAGAAAGTTTCTTTCCCAAGTTGATGTCTTGAGGCTGTTGAGAACTTAGGACAGAAGCCTACCTCAT
CCAGGCCTGCCCTCCGTGCATAGCTCTGCCCTTTGGGTCTTGTTGATAGTCTGTTCAGGCAAAATGGAATAGT
CTCAGGTGGGAACACCTTCTCTTGCTAGCTCCAGGAAGGCTTTGTGGGAAATGAGTTGAGACCATGGACTTGGGA
GTTGGGGGCCAGAGTTGAGCCTGGACTTGACCAATTAATTCCCTTACCTTTTCCAGCCCAAGATAGCTACATGTCTT
TACTTGCTGTATAAGTTTTCTTTTGTCTGGGGGTGCTGATTGATCCTATCTCTTACCCCTTCATTCTTTTCA
CAAACATGCCATCTATCTCCAGGACATTTATTCCCTTCTATTCAAGGCCAGTTAGGAATGCAATTATTTTTTTT
TTTCAGTTAAATACAGACTTGTTTGGACGCAAGGTACCCTTTCTCTTTTTTAAAACTTTTTTATCATGAAAACCTT

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FIGURE 6087B

CAAATACAAAAATAAAATGGTAGAGTGAACCTCCATG

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FIGURE 6088

GAGAGTGTCTGCTGGTCTCTGTGCTGGTGGGGTGGGGGTGCCAGGTGTGTCCAGAGGAGCCCAGTTGGTAG
TGAGGCAGCCATGGGGCTAGAAGCACTGGTGCCCTGGCCATGATAGTGGCCATCTTCCTGCTCCTGGTGGACCT
GATGCACCGGCACCAACGCTGGGCTGCACGCTACCCGCCAGGTCCCCTGCCACTGCCCGGGCTGGGCAACCTTGC
TGCATGTGGACTTCCAGAACACACCATACTGCTTCGACCAGTTGCGGCGCCGCTTCGGGGACGTGTTACAGCCTGC
AGCTGGCCTGGACGCCGGTGGTCGTGCTCAATGGGCTGGCGGCCGTGCGCGAGGCGATGGTGACCCGCGGCGAGG
ACACGGCCGACCGCCCGCTGCGCCCATCTACCAGGTCTGGGCTTCGGGCGCGCTTCCCAAGGGGTGATCCTGT
CGCGCTATGGGCGCGCTGGCGCGAGCAGAGGCGCTTCTCCGTGTCCACCTTGCGCAACTTGGGCCTGGGCAAGA
AGTCGCTGGAGCAGTGGGTGACCGAGGAGGCGCCTGCCTTTGTGCGCGCTTCGCGGACCAAGCCGGACGCCCCCT
TTCGCCCCAACGGCCTCTTGGACAAAGCCGTGAGCAACGTGATCGCCTCCCTCACCTGCGGGCGCGCTTCGAGT
ACGACGACCCTCGCTTCCTCAGGCTGCTGGACCTAGCTCAGGAGGGACTGAAGGAGGAGTCGGGCTTCCTGCGCG
AGGTGCTGAATGCTGTCCCCGTCTCCCGCACATCCAGCGCTGGCTGGCAAGGTCTACGCTTCCAAAAGGCTT
TCCTGACCCAGCTGGATGAGCTGCTAACTGAGCACAGGATGACCTGGGACCCAGCCAGCCACCCGAGACCTGA
CTGAGGCCTTCCTGGCAAAGAAGGAGAAGGCCAAGGGGAGCCCTGAGAGCAGCTTCAATGATGAGAACCTGCGCA
TAGTGGTGGGTAACCTGTTCTTGGCGGATGGTGACCACCTCGACCACGCTGGCCTGGGGCCTCCTGCTCATGA
TCCTACACCTGGATGTGCAGCTCCGTGTCCAACAGGAGATCGACGACGTGATAGGGCAGGTGCGGCGACCAGAGA
TGGGTGACCAGGCTCACATGCCCTGCACCACTGCCGTGATTACGAGGTGCAGCGCTTTGGGGACATCATCCCC
TGAGTGTGACCCATATGACATCCCGTGACATCGAAGTACAGGGCTTCCGCATCCCTAAGGGAACGACACTCATCA
CCAACCTGTCTATCGGTGCTGAAGGATGAGGCCGTCTGGAAGAAGCCCTTCCGCTTCCACCCCGAACACTTCTCTGG
ATGCCCAGGGCCACTTTGTGAAGCCGGAGGCCCTTCTGCTTCTCAGCAGGCCGCGGTGCATGCCTCGGGGAGC
CCCTGGCCCGCATGGAGCTCTTCTCTTTCACCTCCCTGCTGCAGCACTTCAGCTTCTCCGTGGCCGCGGAC
AGCCCCGGCCAGCCACTCTCGTGTCTGTCAGCTTCTGGTGACCCCATCCCCCTACGAGCTTTGTGCTGTGCCCC
GCTAGAATGGGGTACCTAGTCCCCAGCCTGCTCCCTAGCCAGAGGCTCTAATGTACAATAAAGCAATGTGGTAGT
TCCAACCTTGGGTCCCCTGCTCAGGCCCTCGTTGGGATCATCCTCCTCAGGGCAACCCCAACCCCTGCCTCATTCTT
GCTTACCCCAACCGCTGGCCGCATTTGAGACGGGTACGTTGAGGCTGAGCAGATGTCAGTTACCCCTTGCCATAA
TCCCATGTCCCCCACTGACCCAACCTCTGACTGCCAGATTGGTGACAAGGACTACATTGTCTTGGCATGTGGGGA
AGGGGCCAGAATGGGCTGACTAGAGGTGTCAGTCAGCCCTGGATGTGGTGGAGAGGGCAGGACTCAGCCTGGAGG
CCCATATTTTCAAGCCTAACTCAGCCACCCACATCAGGGACAGCAGTCCTGCCAGCACCATCACAACAGTCACC
TCCCTTCATATATGACACCCCAAAATGGAAGACAAATCATGTCAGGGAGCTATATGCCAGGGCTACCTCCAGGG
CTCAGTCGGCAGGTGCCAGAACATTCCCTGGGAAGGCCCCAGGAAAACCCAGGACCAGCCACCGCCCTCAGCCT
GTCACCTTGTGTCAAATTTGGTGGGTTCTTGGTCTCACTGACTTCAAGAATGAAGCCGTGGACCTCACGGTGA
GTGTTACAGTTCTT

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ACACCATCCTCTTAGTTGCTCAGACTGAAAACCTAGCAGCCATCCTGGATTCTCTCACACTGCCTATTCAACGCT
GTGAATGCATGAGTGGAAAGCTGAGTTCGCACTCGTGA CTGGCCGGGGTCAACTCTGACATTGCGTCCCACCTTTT
GCGCGCTGATTTATCTCTGAGCGGATGAAGGTTGGGCCATGGCGGGCGGGGCGGGGAGGCGGGCTTGGAGTGAG
GGGGCGGGGCGAGGCGCCACGAAAACGCGCTCGCGCCGGCGCCGAACCGCAACTCCCGGCGGGCCCCGCGCTCCCG
GGTGGCAAGATGGTGGCGCGCAGGAGGAAGTGCGCCGCGCGGGACCCGGAGGACCGTATCCCCAGCCCACTGGGC
TACGCAGCTATTCCAATCAAGTTCTCTGAAAAGCAACAGGCTTCTCACTACCTCTATGTGAGAGCACACGGCGTT
CGACAAGGCACCAAGTCCACCTGGCCTCAGAAGAGGACTCTTTTTGTCTCAATGTGCCCCATACTGCACAGAG
GAGAGCCTGTCCCGCCTCCTGTCCACCTGTGGCCTCGTCCAGTCTGTAGAGTTGCAGGAGAAGCCGGACCTGGCT
GAGAGCCCAAAGGAGTCAAGGTGCAAGTTTTTTTCATCCCAAGCCAGTTCCGGGTTTCCAGGTAGCCTATGTGGTG
TTCCAGAAGCCAAGTGGGGTGTGAGCGGCCTTGGCCCTGAAGGGCCCCCTGCTGGTGTCCACAGAGAGCCACCCT
GTGAAGAGTGGCATTACAAAGTGGATCAGTGA CTACGCAGACTCTGTGCCCGACCCCTGAGGCCCTGAGGGTGGAA
GTGGACACGTTTCATGGAGGCATATGACCAGAAGATCGCTGAGGAAGAAGCTAAGGCCAAGGAGGAGGAGGGGGT
CCTGACGAGGAGGGCTGGGTGAAGGTGACCCGCCGGGGCGGGCGGCCTGTGCTCCCCCGACTGAGGCAGCCAGC
TTGCGGGTGTGGAGAGGGAGAGACGGAAGCGCAGCCGAAAAGAGCTGCTCAACTTCTACGCTGGCAGCATCGA
GAGAGCAAGATGGAGCATCTAGCGCAGCTGCGCAAGAAGTTCGAGGAGGACAAGCAGAGGATCGAGCTGCTGCGG
GCCCAGCGCAAATTCCGACCGTACTGAGCTGTGAGAGCCGCAGTGAATGGCTGGAGGTGCAGGGCCAGGAGGAGG
CGAGGCAGGGCCTGCAGCGGTCTCTGAGAGGCCGAGCTCTGGCCAACGGGCCCCAGGTTGAAGGCCACCGCGTCC
AACAGCCCCATCAGAGTCCACACAGGCCAGGAGGGAAGGACCAGGCCACCCCTCGGGTCTTGTGCTTCAGCAGTC
CTGGGGACCCAGGCCTGCCGAGAGGAGGACTTGTCTTCCCTGCTTCTTGGCTCCACACCCCTCCTCTCCAGGACCC
TGGATGAATCCGTTCTGTGCTTCCCTTTTCCCTCAATGCAAAAGCCCTTGCTGGCAACGAAAAGCCTCAAAAAGCA
GTGAGAATACAAGAACCTTTTATTTTCCATCCAGTTGGGCAGCAGGGAAGGCTAGGTGGGCCCAGCCCGCCCTT
CCTTCTCCAGCTGGCTGGAGATTATTAGCCAGGAGACAGCAGCCCTGGAACCCAGACTCTGTCTCCCCCTTGAG
GTCACAGATGTTGAAGTTGGAATCTCGCTCCTTCCCCCTGACTACCATCCTAGGCTGGGCCCTAAGACTAGTGAGG
CCTGTCCCCACCATCCCTGGCCTTGTGTGGGGCTCAGGAACCTCAGAGTCCCAAGTGTGAGTCTGGGAGCACTAG
GTCTTCATAGTTCCAGGCCAGAGCTACAGCTGGGCTGGGAGCGTGTGTGTGCACTGTAAGAAGGAGCTGATGAT
ACTGGCCACGTGCTGGGGTTCGCTCATGTGGACACAGTGATTGCCCTGGGACTTCCACAACTGGAACCGCTCTTT
GAGGGTGGATTTTCATTGTGTCTATCATGAACGACAGGGACTCCTTGTGAGAGTAATTCTCTCTTGGATCAAAAATA
TCCGTGGACTGCTTTGATCAACAGGACATGGCGCTGCAGCTTCTGATGGAATGCGCACACAGCTCCCTGCTGAC
GAAGTCAATGCTGTTCTCTGCT

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FIGURE 6090A

CGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGTGAGTTCCAAAGG
CGGGGTGCTGGGGAGAGGCAGCTCCGTCCATCTCTTTTGTCTAATGGGTAAACTGCCTGCATCACAGCTCCCC
TTCATCCCCCATTCCGTTTCCCTCTGTTCTAATGGCAGCTGGCCGTTTCATATGCTTAAACTTGACCAAAATGGT
TTGCTTTGTTATTTCCCCAGGGCTTGACCCTATAGGGACTAGCATTATGATCTCGTTCTCAGCTTTCTGATTTAG
AAATATCTGAGTGGAAGTTGGAGGGGGAGGCTGCTTGGGTCTCCTAGCTGTGTGCATCATCCCGGGAACAGAGAA
CTCCACTGCATGATTGGCTCTGATGGAGACAGTGCCAGATGCTACCCCTTATTTTGTTCGCCAGTGAGGTTTTTT
GTTTGTGTTGTTGTTGTTGTTGTTTTGCTTTTTTTCAGTTATTTTGAGAGTCTCACTGTGTTGCCAGGTTGGTTT
CAAACCTCCTGGGGTCAAGCAACCCCTCTCCCTCAGCCTCCTGAGGACCTGGGACTATAGGCGCACACCATCACGC
CCAGCTGGATTGTTGCTTTTAAGTACAGTGGGAAGCCATTGAAGGCTTTTGTGTCACACAGCTGAGTATACATGCC
TGGCCCAGGACTGAGGGATGTTTTGAAGCCTGAGATGCATAAAATGTTGAGACTGTGAGGACTTCACCTTCTAGA
TAAGGAAGCAGATACCAGGGAGGAGGTTAGACTTGCCAGGGTGAGTGGGATAGTGTGGGGCAGGGCTGAAATAGA
CTTTGAGATTTAAAAAGACTAGGATTTGAACCTGGGTAAATGAATTATGTGATTGGATAAGTTCTTAAACTGTG
TTCAAGGAATAAGAAATATTTCTTAGGGTTTTGTAACCTAATAAGTTTGGGAAGTACTGGGCTAAACAGAGTTAC
ATCTGTTTCACTTTCCGGCTTCTCAGATTGTGTAATATGCTAATGGATGTACCATCCAGAAGGAACATGCAGTG
TTTCTAAACTTAAACCACAAATTAGCCAGGTGTGGTGGCATGCACCTATAGTCCCAGTTACTTGGGGGGCCGAG
GTGGGAGGATCGCTTGAGCCTGGAAGATCGAGACTAGTGAGCCATCATATGCCACTGCACCTCAGCCTGGGTGA
CAGAGTGAGATTCTGTCTCAAAAAAACCCACAAAACCTAGAACATACAGCACTGCCTGCGTCTCCATTTTCTC
ATCAGTAAATAAGAAAAACACAGCCTGGGCCACATAGCAAGACCTGGTCTCTACAAAAAATTTTAAAAATGAGCC
AGGCATGGTGGTACACGCCTGTAGTCTTAGCTCCTTAGGAGGCTGTGGCAGGAGAACTGCTTGAGCCTAGGAGAT
GGAGGCTGATGTGAGCTGTGATTGAGTTTGCTGCGAGGTGGAATGAGATGAAGGGGTATGGAAGTGTTACACCC
AGTGCCTAGCTCATGACAGATGCCAGTAAATGGTGGTCCCTCCCCATCTAAGGAAAACTGACAAGAATTTT
TGACTCTTCTCTGCTCTCCACAGGCGGCTGAGTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGG
GTGAACCTCTGCCTCCTCTCAACCCCCCTGCCGAAGTGACCTGACACCATCCTGAAGGCACCTCTTCAAGTCC
TCAGGGGCCCTCTGTGTGACACGCGCCACAGAATTCAAATCAAGCTTTGAGCAGGGGAGTGAGGCACGCCAAG
TGGGGGCAGAGGAGGGTGGCTCTGTTTTCCCAAGGCAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCT
GATTGTGGGAAGGGTTGCCAGGGATAAAGAGCTTCTCACTGGATGGGACCCGCTTTCTGTGTTGTGTTCTGCC
CTGTGCTCTTCTCTCTACGTTAACGTTTTCTGTAGTATGTTTCTTCTCATCTCATCGCCAAGGTAGGCTTGTTGTTTT
TCAGTGTGTGCTCCTCCCCGAGCCTCAGCCCCAAGCTGATTCTTATCTGGAATGGTACACTGAATTCTCTGGGTG
GCTTCTTGTGCCCCATGGGATGCAGCGTGGGGGCTGTCTGAAGGACCTGCTTTTTTCCAGGGGCCGAGGGCT
GCCTTTCCCTTTGTGTGTATTAAGCTTTTCAAACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAG
GTCGGCCTGAGAGCTGTGCCGCTCCTCTGTCTTGTGAGTGGAGGTGCCCTGGGTGGGGAGCAGGTCTCAGGCCTCT
TGTCCTCTCCCCAGTGGCTCCAGGCCTCACTAGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTAT
CTAAGCTCTTGGCTTGGAGTCCCGTGTGCTCTCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTCT
TGAGTTGTGCTGAATGCCCCACCCAGCTCTCTTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGA
GCCCTCCCGGTTCTACCTCGCTGGCACTTAACCACACCCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTG
GGCCTTTGAAAGGCTCAGCCTCCATTGTGCAGTGTCTGGGTTTGGAGCTTATTTGAATGGAAGAGGTGAGTTT
TTCTGGCTCTCCATTTCTGGCCTCAGTTGTCTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCT
GCCACCAAGGGGCACTGTTTGTTCCTACTTATGTGAGTGACCCATCCATCCATGACCAGAGGATTATTTTCTCTG
CCTTGGCAGAGGAGGAGGAGTCAAGGGAGCAGGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGA
CAGTTGGGACGAAACTTCAGAGCCCAGGCAGTCCCTGAATGACCAGGCCAGTGTGTCACTGAGTGGTCCCCTGC
TGGTTGGGAGTGAAGAGAATCCAGGCTGGCAGAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAA
ATCAGTAGCAAGTGCTGGAAAAGGCACATGCCGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCA
GTGAAAAAAACCAGAGACTCATGTTTCCAGGGGTGAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCT
TCAGTGTGCAGGCTCTGAGGCTGCCAGGACGGGAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCCACTTGCAGTT
CTTTAAAGAATGCTGCTTTTTTATTCTCCTAACCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACA
TTCTCCACACTTTTCCCTTCTGGCCCAAGAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTAAGTGG
GAGCCGGGGGCTCACTGCTTGCACTGTGCTTAGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCC
CTCTCATCCCAAAGCAGGTATCTTCTGGTTGTACAGAGTTTTCATTGAGTCCAGCTGCAGCCACGTGGCCATCTG

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FIGURE 6090B

GAGCTGGTGCTATAGGTGACCATCTGGTACATTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCT
TGGGAGACCGGGAGGAGAAGGTGGTGGGCTAGTCCTGTGTCTCCTCCACTTCCCATGCCTCTATGTTACCCATC
TGTGTCTCCTGTGCAGAAGGAGAGGAAGGGGCATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTG
AATAAACATTTGTTATTCCCTACCTTTGAGTTATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAAAGTCTCAC
TCTGTTGCCAAGGCTGGAGTGCAGTGGCACTATCTCAGCTCACTGCAACCTCCGCAGCCAGACTCAAGTAATCCT
CCCACCTCAGCCTCCCAATTAGCTGGGACTGCAGGCGTGCATCACCATGTCTGGCTAATTTTTGTAGAGATGAGG
TTTACCATGTTGCACAAGCTGGTCTTGAAATCCTGACCTCAGGTGGTCTGCCTGCCTCGGCCTCCCAAAGTTGG
AATTAACAGGCGTGAGCCACCACGCCAGCCAAGGGTTTTAATCTTGAGGGATTTCAACATTTGGGGTGGAAC
TAATTATTTAAAAATAGAGACAGATTCTTGCTATGATACCCAGGATGGTCTTGAACCTCGGGCACAAGTGATC
CTCCTGCTTCAGCCTCTCAAAGTGTGGAGTTACAGGCATGAGCCACTGCTCCCCACCAGGGATGCAATTACTT
GATACTCCTCTCCAGAAGGTGGGGTCTGTGCCCTCCTGAACCCAAGTGTGCTCTGTTACTACTTTGACCAGAT
GTGACTCTGCCATTTCTGTGCCTAGGCTTTTAAAGATGGTCACTTCTCCATTTCTGTGCCTGGAACATTTCTCTG
GGAGCCTTGACACCACATTTGAAGTTGCCTATTGGGGCCAGCATGGTGGCTCACGCCTGTAATCCCAGCACTTCA
GAAGGCCGAGGCAGGCAGATCGCATGAAATCAGGAGTTTGAGACCAGCCTAACCAACGTGGTAAAACCTGTCTC
TACTAAAAATTACAAAAATTAGAGGGGCGCGGTGGTGGGCGCTTGTAATCCCAGCTATTAGGAGGCTGAGGCAG
GAGAATCACTTGAACCCGGGAGGCGGAGTTTGCACTGAGGTGAAATCACGCCACTGCACTCCAGCCTGTGCAACA
GAGCGAGGCTCTGTCTCAAAAGAAAAAAATAGTTGACTGTGCGTTTGGCATGGTGGCTCATGCCTCTTGTCCCA
GCACTTTGGGATGCTGAGGCAGGAAGATTACTGGAGCTCAGGAGTTTGAGACCAGCTTGGGCAATATAGTGAAGC
CCTATCTTTACAAAAACGAAAAATTAGCTCAGCTACTCAGGAGCCTGAAATGGAGGATCATTTGTGCCCAGGAG
GCAGAGGTGCGAGTGAGCTGTGATCATGCCACTATACTCCATCCTGGGCAACACAGTGAGACGGCAGAAAAAAA
AAATAGTTGACTATTGAGTCTCATATCTGATTGCCACCTGACATCTCCCCTGAGTGGCCTAATGGGCATCTCAC
CACGGCCACAGAGAACTGATCTACTCGATTTTCCCTAAGCTGGCCCTCTCCTGCAGTCTACCCATGTCAGTCA
ATGGCAACACCATCCTCTTAGTTGCTCAGACTGAAAAGCTAGCAGCCATCCTGGATTTCTCTCAGCTGCCTATT
CAACGTGTGAATGCATGAGTGGAAAGCTGAGTTGCGCACTCGTGAAGTGGCCGGGGTCACTCTGACATTCCTCCC
ACTTTGGCGCGCTGATTTGCCTCTGAGCGGATGAAGGTTGAGCCATGGCGGGCGGGGAGGCGGGCTTGG
AGCGAGGGGGCGGGGAGGCGCCACAAAAACGCGCTCGCGCGGGCGCGGAACCGCAACTCCCGGCGACCCCGCG
CTCCCGGTGGCAAGATGGTGGCGCGCAGGACGAAGCTCGCGGCGGGGACCCGGAGGACGGTATCCCGAGCCCA
CCGTGCTACGCAGGTGAGGGGATCCGGAACGCGAGACCGGGGGCGGCCAGCATCGCCGGGAGGTGTTTGGGGGCT
GGCGGCGGGGGGGTCCCCAGGAGCGGCCG

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FIGURE 6091

CGAGAGTTGGTCCGCGGACGCCGGAAGTAGTTTCGTCGCTCCCTAGCGGCCGAAGGGGCGGGCTCGCGGGGTCTCG
ACTGCTTTTCGGCTTGCTCGGCGGAGCAAGATGGCGGACATCTCCCTGGACGAACTCATCAGGAAGCGCGGGGCGG
CGGCGAAAGGACGGCTTAATGCCAGACCGGGAGTTGGAGGTGTCCGATCTCGAGTTGGGATCCAGCAAGGCCTTC
TCAGCCAGTCAACACGCACAGCCACCTTCCAGCAGAGATTTGATGCCCGGCAGAAGATTGGCCTCTCAGATGCC
GGCTCAAACCTGGGAGTCAAGGATGCCCGGGGAGAAGCTTTTGAGAAAGATGCCCGATTTTGAATCAAAGGGAAAG
TGCAGGATGCCAGAGAGATGTTGAACTCTCGCAAGCAGCAGACCACGGTGCCCCAGAAGCCCCGCCAGGTTGCTG
ATGCCCGGGGAGAAGATCAGCTTGAAGAGGAGTTCCCTTGCTGCCTTCATAAACCCACCCATTGGGACAGTGACCC
CTGCTCTGAAGCTCACCAAAAACCATCCAGGTTCCACAGCAGAAAGCCATGGCACCACTTCATCCCCATCCTGCCG
GAATGAGAAATCAATGTTGTCAATAACCACCAGGCCAAACAGAAATTTATATGACCTGGATGAAGATGATGATGGTA
TAGCTTCCGTTTCTACTAAACAGATGAAGTTTGAGCCTCAGGCGGCTTTCTCCACCACATGGCTGGGCTAAGCA
GTTCCAAGCTTTCCATGTCCAAGGCCCTCCCTCTCACCAAGTGGTTCAGAATGATGCATACACAGCTCCTGCTC
TCCCTTCTCTATTTCGAACAAAAGCCTTGACCAACATGTCCCGGACACTGGTGAACAAGGAAGAACCCCCCAAAG
AGCTGCCAGCTGCTGAGCCTGTTCTCAGCCCATTGGAAGGCACCAAGATGACTGTGAATAATCTGCACCCTCGAG
TCACTGAGGAGGACATTGTTGAGCTTTTCTGTGTGTGTGGGGCCCTCAAGCGAGCTCGACTGGTCCATCCTGGGG
TAGCGGAGGTGGTGTGTTGTGAAAAAGGACGATGCCATCACCGCATATAAGAAGTACAACAACCGGTGTCTGGACG
GGCAGCCGATGAAGTGCAACCTTCACATGAATGGGAATGTTATCACCTCAGACCAGCCCATCCTGCTGCGGCTGA
GTGACAGCCCATCAATGAAAAAGGAGAGCGAGCTGCCTCGCAGGGTGAACCTCTGCCTCCTCCTCAACCCCCCTG
CCGAAGTGAGCCCTGACACCATCCTGAAGGCACCTTCAAGTCTCAGGGGCCCTCTGTGACCACGCAGCCCACAG
AATTCAAAATCAAGCTTTGAGCAGGGGAGTGAGGCAGCCAGAAGTGGGGGCAGAGGAGGGTGGCTCTGTTTCCCC
AAGGCCAAAGCTTATGACCAATGGGCCATCGGACTGGAGACCCCTGATTGTGGGAAGGGTGGCAGGGATAAAGAG
CTTCCTCACTGGATGGGACCCGCCTTTCTGTGTTGTGTTCTGCCCTGTGCTCTTCTCTACGTTAACGTTTCTCT
GTAGTATGTTTCTTCATCTCATCGCCAAGGTAGGCTTGTGTTTTTTCAGTGTGTGCCTCCCCGAGCCTCAGCCCCA
AGCTGATTTCCTATCTGGAATGGTACACTGAATTCCTCTGGGTGGCTTTCTTGTGGCCCCATGGGATGCAGCGTG
GGGGCTGTCTGAAGGACCCCTGCTTTTTCCAGGGGCCGAGGGGCTGCCTTTCTTTGTGTGTATTAAGCTTTTCAA
ACAATGGAGGGGATGGAGAGCCCTGGTGTCTGACGGGAGCCAGGTCCGGCTGAGAGCTGTGCCGCTCCTCTGTC
TTGTCACTGGAGGTGCCTGGGTGGGGAGCAGGTCTCAGGCCTCTTGTCTCTCCCCAGTGGCTCCAGGCCTCACT
AGTGGCAAGGGCAGGATGAGGCTGCACCGCTGGGAAGAGTCTATCTAAGCTCTTGGCTTGGAGTCCCGTGTGCTC
TCCACCCAGAGGAAGTTCTCCAGAGTTACCTTTCCCTTTTCTTGAAGTTGTGCTGAATGCCCCACCCAGCTCT
CTTCCCTTCTGGGTGTCTTTGCTGGGAGGGGGCTGTGTTGTGAGCCCTCCCGGTTCTACCTCGCCTGGCACTT
AACCACACCCTGGTTTTGTGTAGCCGCCAGCTCTCTTCTGGTTGGGCCTTTGAAAGGCTCAGCTCCCATTTGTGC
AGTGCTTGGGTTTGGAGCTTATTTGAATGGAAGAGGTGAGTTTGTTCCTGGCTCTCCATTTCTGGCCTCAGTTGT
CTACAGGACAGTGGTCAGGGATGCCTGGAGGCATATATCCAGCTGCCACCAAGGGGCAGTGTGTTCCCACTTA
TGTGAGTGACCCCATCCATCCATGACCAGAGGATTATTTTCTGCCTTGGCAGAGGAGGAGTCAAGGGAGCA
GGGCAGCTCTACCAGGCAAGGTGTTTCCCCAGCATAGGCGCAGACAGTTGGGACGAACTTCAGAGCCAGGCAG
TCCCTGAATGACCAGGCCAGTGTGTCAGTGAAGTGGTCCCTGCTGGTTGGGAGTGAAGAGAATCCAGGCTGGCA
GAGCTGGAGCCAGTTGGGGAGCACGGTTCTGGGAGCTCTGCAAAATCAGTAGCAAGTGTGGAAGAGGCACATGC
CGAAGATACTCAAGAGCTCCCAAGATTTGCTTGAGGCTAGCCCAGTGAAAAAAACCAGAGACTCATGTTTCCAGG
GGTCAGTCTGTGAGGCAGGAAGGACCCAGGATTTGAACCCAGCTTCAGTGTGCAGGCTCTGAGGCTGCCAGGAC
GGGAAAGTCCAAGGAAGGGGCTGGTGGTGTCTCCACTTGCAGTTCTTTAAAGAAATGCTGCTTTTTATTCTCCTAA
CCCTTTCAAGTGGGTGCAGACTTCTCGTTAGCAGCTGGAAGACATTCTCCACACTTTTCCCTTCTGGCCCAA
GAGAGCATCCAGAAGGCAGTAGGACCTGGTTTTTTCAGGTACTGGGAGCCGGGGGCTCACTGCTTGCAGTGTGCTT
AGGGTAGGGATGGTAAATATCCTCCCTGCATGGCTTTATCCTCCCTCTCATCCCAAAGCAGGTATCTTCTGGTTG
TCACAGAGTTTCAATTGAGTCCAGCTGCAGCCACGTGGCCATCTGGAGCTGGTGTATAGGTGACCATCTGGTACA
TTGAGGGGACCTGTTTGCCTCCTCCACTCTATAAGCAGTCATCTTGGGAGACCGGGAGGAGAAGGTGGTGGGCTA
GTCCTGTGCTCCTCCTCCACTTCCCATGCCTCTATGTTACCCATCTGTGCTCCTGTGCAGAAGGAGAGGAAGGGG
CATTAAGAGATGAAGGGTGATTATGTATTACTTATCCATTTCTGAATAAACATTTGTTATTCTT

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FIGURE 6092

MADISLDELIRKRGAAAKGRLNARPGVGGVRSRVGIQQGLLSQSTRTATFQQRFDARQKIGLSDARLKLGVKDAR
EKLLQKDARFRIKGVQDAREMLNSRKQQTTPQKPRQVADAREKISLKRSSPAAFINPPIGTVTPALKLTCTIQ
VPQQKAMAPLHPHPAGMRINVVNNHQAKONLYDLDEDDDDGIASVPTKQMKFAASGGFLHHMAGLSSSKLSMSKAL
PLTKVVQNDAYTAPALPSSIRTKALTNMSRTLNVNKEEPPKELPAAEPVLSPLEGTKMTVNNLHPRVTEEDIVELF
CVCGALKRARLVHPGVAEVVVFVKDDAITAYKKYNNRCLDGQPMKCNLHMNGNVITSDQPILLRLSDSPSMKKES
ELPRRVNSASSSNPPAEVDPDTILKALFKSSGASVTTQPTFEFKIKL

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FIGURE 6093

CCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCACGCCAGCCAT
CACCCCTCGAGAGCCCCGGGTTTCCAGCCTGGCCTGCCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCCCCTGGAG
CCCCCTTCGGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCTGCTGCGCTGGCACTTACT
GGTCCTTACCAGAGACGCCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGC
TGAGGGCTGCCAGCAGCCCCGTCTGCCCCACCATTTCCCGGCCGTGGACCATAGTCGGGATGTCAGCAGACACACAT
GGGCAGCCCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTCACCCCCACTCCCGCCTCAGGGCCAGG
CCCAGGCCTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCC
AGGGCCCTGGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGTCTGGG
CTGGGGCCACCATCCCTGATGGCAGAACTCCCAACAACCATGTATTTATTCTCTGTCTAAACCGTCCCCCTCC
TTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCCTTTGTCTGAGGGACATATCAGTGACCTCGACGTTG
CCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTTTCAGAGTCATTTATGAGCAGAAAAAAAAAAG
TAAAACTTTGCTAATATT

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FIGURE 6094

CGCGACGGTCTCGGCGGGCGGCGGCGGCGGCGACAGAGCGAGCGCGGCGGGGCCACCATGGGGGGCCAGCTCAG
CACGTTGGGCCATATGGTGCTCTTCCCAGTCTGGTTCCCTGTACAGTCTGCTCATGAAGCTGTTCCAGCGCTCCAC
GCCAGCCATCACCCCTCGAGAGCCCGGACATCAAGTACCCGCTGCGGCTCATCGACGGGAGATCATCAGCCATGA
CACCCGGCGCTTCCGCTTTGCCCTGCCGTACCCCCAGCACATCCTGGGCCTCCCTGTGCGCCAGCACATCTACCT
CTCGGCTCGAATTGATGGAAACCTGGTTCGTCGCGGCCCTATACACCCATCTCCAGCGATGATGACAAGGGCTTCGT
GGACCTGGTCATCAAGGTTTACTTCAAGGACACCCATCCCAAGTTTCCCGCTGGAGGGAAGATGTCTCAGTACCT
GGAGAGCATGCAGATTGGAGACACCATTGAGTTCCGGGGCCCCAGTGGGCTGCTGGTCTACCAGGGCAAAGGGAA
GTTCCGCATCCGACCTGACAAAAAGTCCAACCCTATCATCAGGACAGTGAAGTCTGTGGGCATGATCGCGGGGAGG
GACAGGCATCACCCCGATGCTGCAGGTGATCCGCGCCATCATGAAGGACCCTGATGACCACACTGTGTGCCACCT
GCTCTTTGCCAACCAGACCGAGAAGGACATCCTGCTGCGACCTGAGCTGGAGGAACTCAGGAACAAACATTCTGC
ACGCTTCAAGCTCTGGTACACGCTGGACAGAGCCCCCTGAAGCCTGGGACTACGGCCAGGGCTTCGTGAATGAGGA
GATGATCCGGGACCACCTTCCACCCCCAGAGGAGGAGCCGCTGGTGCTGATGTGTGGCCCCCACCATGATCCA
GTACGCTGCCTTCCCAACCTGGACCACGTGGGCCACCCACGGAGCGCTGCTTCGTCTTCTGAGGGCCGGGCAC
GGTCACACGGCCACCCGCCCCGCGCACCCACGCCCTGTTACGCTCACCCAGTCACCTCCCCACATCGCACACT
GGGGCCCCGGGTTAGCCTGGCCTGCCCCGTGCCCTGGTGAATCACCTGGCTGAGCAGTTCCTTGGAGCCCCCTTC
GGGAGCAGGGCTGTGTCCCAGATGGGCCACGGCTGAGCCTTCAGAGTACGTCCTGCCTGGCACTTACTGGTCCTT
ACCAGAGACGCCCAGCCCCATCCCTGTCTCATGACCCCTCGTCCACCCCCACACACACTATAAGGCTGAGGGC
TGCCAGCAGCCCCGTCTGCCCACCATTCGCGCCGTGGACCATAGTCGGGATGTCAGCAGACACACATGGGCAGC
CCAAAGCTGCAGGTGCCAGGGCCCCACCCAGCCTCGCCTGTACCCCCACTCCCGCCTCAGGGCCAGGCCCCAGGC
CTCACCACTGACGCTGCATGAGACATTGACACCAGAAAGCCCTCTTGGGGGCACTGCTCCCTACCCCCAGGGCCC
TGCCAGCCGGGAGCTTGGCTCTCCTCTGGCTAGAGTGGGAAGAGGGGGCTGGCCATGGGGCCCTCCCAGAACCT
CAGCATTTCTTCCAGCCCATCCAAACACTGAGGCAGCCTTGGGGAACCCCGAGCTGGGGGGTTGGCAGCCCACT
GCACCGCCTCAGGGTTTTGGGGTCTGGGCTGGGGCCACCATCCCTGATGGCAGAACTCCCAACAACCACATGTAT
TTATTCCTCTGTCTAAACCGTCCCCTCCTTCCCTCACCCCCAGCACAGGGGGATTCTGAGCAGTGCCTCTTGTC
TGAGGGACATATCAGTGACCTCGACGTTGCCTTTAGACTACAGTTGTGTTAGCCTCTTGCGTATTGGCTTTTTCA
GAGTCATTTATGAGCAGAAAAAAAAGTAAACCTTTGCTAATATT

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FIGURE 6095

AGCGGCCTGGCTAACTCCTGCCAGGCAGTGCCCTTCCCGGAGCGTGCCCTCGCCGCTGGTACGGCTCCTACCTGG
TCTGGAAAGAGCTGGGAGGCTTCACAGAGAAGGCTGTGGTTCCCCTGGGCCTCTACACTGGGCAGCTGGCCCTGA
ACTGGGCATGGCCCCCATCTTCTTTGGTGCCCGACAAATGGGCTGGGCCTTGGTGGATCTCCTGCTGGTCAGTG
GGGCGGCGGCAGCCACTACCGTGGCCTGGTACCAGGTGAGCCCGCTGGCCGCGCCGCTGCTCTACCCCTACCTGG
CCTGGCTGGCCTTCGCGACCACACTCAACTACTGCGTATGGCGGGACAACCATGGCTGGCATGGGGACGGCGGC
TGCCAGAGTGAGTGCCCGGGCCACCAGGGACTGCAGCTGCACCAGCAGGTGCCATCACGCTTGTGATGTGGTGGC
CGTCACGCTTTTCAATGACCACTGGGCCTGCTAGTCTGTTCAGGGCCTTGGCCAGGGGTCAGCAGAGCTTCAGAGGT
TGCCCCACCTGAGCCCCACCCGGGAGCAGTGTCTGTGCTTCTGTCATGCTTAGAGCATGTTCTTGGAACATGG
AATTTTATAAGCTGAATAAAGTTTTTGACTTCCTTT

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FIGURE 6096

MAPHLLWCPTNGLGLGGSPAGQWGGGSHYRGLVPGEPA GRPPALPLPGLAGLRDHTQLLRMAGQPWLAWGTAAAR
VSARPTRDCSCTSRCHHACDVVAVTLS

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FIGURE 6097

ATGGAGGCCGAGCGGGGTCCCGAGCGCCGGCCTGCGGAGCGTAGCAGCCCGGGCCAGACGCCGGAGGAGGGCGCG
CAGGCCCTTGCCGAGTTCGCGGCGCTGCACGGCCCCGGCGCTGCGCGCTTCGGGGGTCCCCGAACGTTACTGGGGC
CGCCTCCTGCACAAGCTGGAGCACGAGGTTTTTCGACGCTGGGGAAGTGTTTGGGATCATGCAAGTGGAGGAGGTA
GAAGAGGAGGAGGACGAGGCAGCCCCGGGAGGTGCGGAAGCAGCAGCCCAACCCGGGGAACGAGCTGTGCTACAAG
GTCATCGTGACCAGGGAGAGCGGGCTCCAGGCAGCCCCACCCCAACAGCATCTTCCTCATCGACCACGCCTGGACG
TGCCGTGTGGAGCACGCGGCCAGCAGCTGCAGCAGGTGCCCCGGGCTGCTGCACCCGCATGGCCAACCTGATGGGC
ATTGAGTTCCACGGTGAGCTGCCAGTACAGAGGCTGTGGCCCTGGTGCTGGAGGAGATGTGGAAGTTCAACCAG
ACCTACCAGCTGGCCCATGGGACAGCTGAGGAGAAGATGCCGGTGTGGTATATCATGGACGAGTTCGGTTCGCGG
ATCCAGCACGCGGACGTGCCAGCTTCGCCACGGCACCCCTTCTTCTACATGCCGCAGCAGGTGGCCTACACGCTG
CTGTGGCCCCGTGAGGGACCTGGACACTGGCGAGGAGGTGACCCGAGACTTTGCCTACGGAGAGACGGACCCCTG
ATCCGGAAGTGATGCTGCTGCCCTGGGCCCCCACCGACATGCTGGACCTCAGCTCTTGACACCCGAGCCGCC
GCCGAGCACTACCAGGCCATTCTGGAGGAAAAACAAGGAGAAGCTGCCACTTGACATCAACCCCGTGGTGACCCCC
CACGGCCACATCTTCAAGGTCTACACGGACGTGCAGCAGGTGGCCAGCAGCCTCACCCACCCGCGCTTCACCTC
ACCCAGAGTGAGGCGGACGCCGACATCCTCTTCAACTTCTCACACTTCAAGGACTACAGGAAACTCAGCCAGGAG
AGGCCAGGCGTGCTGCTGAACCAAGTTCCTGCGAGAACCTGCTGACTGTCAAGGACTGCCTGGCCTCCATCGCG
CGCCGGGCAGGTGGCCCCGAGGGCCCCACCTGGCTGCCCCGAACCTTCAACCTGCGCACTGAGCTGCCCCAGTTT
GTCAGCTACTTCCAGCAGCGGGAAAGGTGGGGCGAGGACAACCACTGGATCTGCAAGCCCTGGAACCTGGCGCGC
AGCCTGGACACCCACGTACCAAGAGCCTGCACAGCATCATCCGGCACCGAGAGAGCACCCCAAGGTTGTGTCC
AAGTACATCGAAAGTCCCGTGTGTTCCTTCGAGAAGACGTGGGAAAGGTCAAGTTCGACATCCGCTACATCGTG
CTGCTGCGGTGCTGAGGCCCCCTACGGTGTGTTCGTGTATGATGTGTTCTGGCTGCGGTTCTCCAACCGGGCCTTT
GCACTCAACGACCTGGATGACTACGAGAAGCACTTCACGGTCATGAATATGACCCGGATGTGGTGCTGAAGCAG
GTGCACTGTGAAGAGTTCATCCCCGAGTTTGAGAAGCAATACCCAGAATTTCCCTGGACGGACGTCCAGGCTGAG
ATCTTCCGGGCCTTCACGGAGCTGTTCCAGGTGGCCTGTGCCAAGCCACCACCCCTGGGCCTCTGCGACTACCCC
TCATCCCGGGCCATGTATGCCGTGACCTCATGCTGAAGTGGGACAACGGCCAGATGGAAGGCGGGTGATGCAG
CCGAGATCCTGGAGGTGAACCTCAACCCCGACTGTGAGCGAGCCTGCAGGTACCACCCACCTTCTTCAACGAC
GTCTTCAGCACCTTGTTTCTGGACCAGCCCGTGGCTGCCACGTTACCTGCCTTGCT**TAG**CGCACTCGCTGTCCCC
AAAACCTGTGCTTGGGGCAGGATTCCAACCTCAGTTCTCTGAGCTGCTTCTGCAAGGCCCCCATGTCCCTCCCC
ACCCGGCCCTGGGCATAGCCTCAGCCCCAGGCCTCTGTCTGCCGAGCCATCTCCCGGCGCCACACTCCGGGA
GCACAGCATCCTCCTCTCAGCTGTGGGTGAGAGCAGGACAGTGATGGTGTCCTCCAGGGCTGAGCACCAACCCACG
CCCTGCCCTCACCCCTCACCACCATCTGTGCACTGATGAGTCTCCAGTTTAGCCAAGGGCTTTGTTCTCTGGCATG
GAGAATTTGTTCTTGCTGCTGTGTTTCCAGGGGTGCTGGGGGAAGGTTCCGTGGAGCGAGACAAGGTGTCTCT
CGGGAGCAGGGTTCCACCGGAAGCGTTTGGGAGCCCTGTATCACACGGGGCAGGCGGGTTTCTCTTCCGGGGTC
TCTGCTCTTATGCATCAGGACGACCCCGGGACGGCTGTGGGGCCCCACACTGCACCCACAGGGCTCTATGCGACA
GGGGCCCAGGAACAGCCTGAGGCCACCACCCAGCAAGCCCGCTTATCACCCATTCCAGCTCACCCAGAACCTTC
ACCAGCAAACCTCCTGCTGAGGTCTTGGCAGGAGGCCACCGTCTTGTACCCTTTCTTTTCTGTTGCTGAGGGT
CACAGACCCCAACAGGGAATCAGTATCTGTCTTCCAGTGGTTGCCCTGCTCGCCGGGCACTCCACGGGGTCCC
GCCCTTGTGTGAGATGGGCCAGGATCCTTCGGCAAGGGGCGCCTGGGGCTGGGGCTGATTGTGGGCGGTGGAGCG
CCAGACAGAAAAGGATTCCAATGAGAACTTCAGGTTAAAGTCAGATGCCACCTACCAGGGTCTACAGTCAAAATG
TTGGCTTTTTTCTTATTTTTTAATGTATGGGAGAAAAATGTAAAAATCCAGTCTTTTCTAATTGTGTTTCTGAAA
TTAGGAGTCAGCTGCCAGCGTTTTTGTGTGGCTGCAGTGTGCCTGGGCCCAGCTCACGGGCAGTGGGTGGACCTA
ACTGCCCAGGCAGGCGAGAGCTACTTCCAGAGCCTTCCAGTGCATGGGAGGGCAGGGCTAGGTGTAGCGGTGTCT
CCTCTTTGAAATTAAGAATATCTTTCTTGTAGCAAAGCTGCACCTGATGATGCTGCCTCTCCTCTCTGTGTTGT
CTGGGCCCCTTGTTTACAAGCACGCGTTACCCCTTCTGAGGGGAGCCATGCTCTAGCCCTTGGAGGGCCTGTTGCA
GGGGCAGGGCGGGCCCGTGCCTTTGGCAGCTCCTGGAGAGCTGTGGACATGCAGTCCCCCTCAGTTCGTGCTGC
AATAAAGGCCATCTTCTCTTA

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FIGURE 6098

MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRL LHKLEHEVFDAGEVFGIMQVEEV
EEEEDEAAAREVRKQQPNPGNELCYKVIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANLMG
IEFHGELPSTEAVLVLEEMWKFNQTYQLAHGTAEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTL
LWPLRDLDTGEEVTRDFAYGETDPLIRKCM LLPWAPTDMLDLSSCTPEPPAEHYQÀILEENKEKLPLDINPVVHP
HGHIFKVYTDVQQVASSLTHPREFTLTQSEADADILFNFSHF KDYRKLSQERPGVLLNQFPCENLLTVKDCLASIA
RRAGGPEGPPWLPRTFNLRTELPQFVS YFQQRERWGEDNHWICKPWNLARS LDTHVTKSLHSIIRHRESTPKVVS
KYIESPVLF LREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRF SNRAFALNDLDDYEKHFTVMNYDPDVVLKQ
VHCEEFIPEFEKQYPEFPWTDVQAEIFRAFT ELFQVACAKPPPLGLCDYPS SRAMYAVDLMLKWDNGPDGRRVMQ
PQILEVNFNPD CERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV

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FIGURE 6099

GCGGGGAATCATGGCCGCCCCCAGTGTTCCGCGTCCGGGGGTTTGTGGGAGTTGCCTTGACCTGCAGCTCCGCCA
CCGCGGACCCGCCTTCTGCCCTCAGCAGCAGACGCTCTGTCCCGCCCGGGCAGCTCTGCGAGGCAGCGGCTGGAG
AGGGAACCATGGGGACTGTGCACGCCCCGAGTTTGGAGCCTCTTCCATCAAGTGGACCTGATTTTGGAGGATTAG
GAGAAGAAGCTGAATTTGTTGAAGTTGAGCCTGAAGCTAAACAGGAAATTTCTTGAAAACAAAGATGTGGTTGTTT
AACATGTTTCATTTTGATGGACTTGGAAAGGACTAAAAGATGATATCATCATTTTGTGAAATTGGAGATGTTTTCAAGG
CCAAAACCTAATTGAGGTAATGCGGAAATCTCATGAAGCCCGTGAAAAATTGCTCCGTCTTGGAATTTTGTAGAC
AAGTGGATGTTTTGATTGACACATGTCAAGGTGATGACGCACCTTCCAAATGGGTTAGACGTTACCTTTGAAGTAA
CTGAATTGAGGAGATTAAACGGGCAGTTATAACACCATGGTTGGAAACAATGAAGGCAGTATGGTACTTGCCCTCA
AGCTTCCTAATCTTCTTGGTCGTGCAGAAAAGGTGACCTTTTCAGTTTTCTATGGAACAAAAGAACTTCGTATG
GCCTGTCTTCTTCAAACCACGGCCCGGAACTTCGAAAGAAATTTCTCTGTAAACTTATATAAAGTTACTGGAC
AGTTCCCTTGGAGCTCACTGCGGGAGACGGACAGAGGAATGTCAAGCTGAGTACAGTTTTCCCATATGGAAGACCA
GCCACACTGTCAAGTGGGAAGGCGTATGGCGAGAACTGGGCTGCCTCTCAAGGACGGCGTCATTTGCTGTTGCGAA
AAGAAAGCGGACATTCAGTGAAATCATCTCTTTTCGCACGCCATGGTCATCGATTCTCGGAATTTCTCCATCTTAC
CAAGGAGAGGTGCTTTGCTGAAAGTTAACCAGGAACTGGCAGGCTACACTGGCGGGGATGTGAGCTTCATCAAAG
AAGATTTTGAACCTCAGTTGAACAAGCAACTCATATTTGATTTCAGTTTTTTTCAGCGTCTTTCTGGGGCGGAATGT
TGGTACCCATTGGTGATAAGCCGTCAAGCATTGCTGATAGGTTTTACCTTGGGGGACCCACAAGCATCCGCGGAT
TCAGCATGCACAGCATCGGGCCACAGAGCGAAGGAGACTACCTAGGTGGAGAAGCGTACTGGGCCGGCGGCCTGC
ACCTCTACACCCCATACCTTTCCGGCCAGGCCAGGGTGGCTTTGGAGAAGCTTTCCGAACACACTTCTTTCTCA
ACGCAGGAAACCTCTGCAACCTCAACTATGGGGAGGGCCCCAAAGCTCATATTCGTAAGCTGGCTGAGTGCAATCC
GCTGGTCGTACGGGGCCGGGATTGTCTCAGGCTTGGCAACATCGCTCGGTTGGAACTTAATTACTGCGTCCCCA
TGGGAGTACAGACAGGCGACAGGATATGTGATGGCGTCCAGTTTGGAGCTGGGATAAGGTTTCTGTAGCCGACAC
CCCTACAGGAGAAGCTCTGGGACTGGGGCAGCAGCAAGGCGCCCATGCCACACACCGTCTCTCGAGGAAACGCGG
TTCAGCGATTCTTTGACTGCGGACCCTGTGGGAAACCCCGTCAATAAATGTTAAAGACACACTC

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FIGURE 6100

MGTVHARSLEPLPSSGPDFGGLGEEAEFVEVEPEAKQEILENKDVVVQHVHFDGLGRTKDDIIICEIGDVFKAKN
LIEVMRKSHEAREKLLRLGIFRQVDVLIDTCQGDDALPGLDVTFEVTELRRLTGSYNTMVGNNEGSMVLGLKLP
NLLGRAEKVTFQFSYGTKETSYSGLSFFKPRPGNFERNFVSVNLYKVTGQFPWSSLRETDGMSAEYSFPIWKTSH
VKWEGVWRELGLSRTASFVRKESGHSLSKSSLSHAMVIDSRNSSILPRRGALLKVNQELAGYTGGDVSF IKEDF
ELQLNKQLIFDSVFSASFVGGMLVPIGDKPSSIADRFYLGGPSTIRGFSMHSIGPQSEG DYLGGEAYWAGGLHLY
TPLPFRPGQGGFGELFRTHFFLNAGNLCNLNYGEGPKAHIRKLAECIRWSYGAGIVLRLGNIARLELNYCVPMGV
QTGDRICDGVQFGAGIRFL

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FIGURE 6101

ATGGAGCCGGAGTTCTTGTACGACCTGCTGCAGCTCCCCAAGGGGGTGGAGCCCCCAGCGGAGGAGGAGCTCTCA
AAAGGAGGAAAGAAGAAATACCTGCCACCCACTTCCCGGAAGGACCCCAAATTTGAAGAACTGCAGAAGGTGTTG
ATGGAGTGGATCAATGCCACTCTTCTCCCCGAGCACATTGTGGTCCGCAGCCTGGAGGAGGACATGTTGACGGG
CTCATCCTACACCACCTATTCCAGAGGCTGGCGGCGCTCAAGCTGGAAGCAGAGGACATCGCCCTGACAGCCACA
AGCCAGAAGCACAAGCTCACAGTGGTGCTGGAGGCCGTGAACCGGAGTCTGCAGCTGGAGGAGTGGCAGGCCAAG
TGGAGCGTGGAGAGCATCTTCAACAAGGACCTGTTGTCTACCCTGCACCTCCTTGTGGCCCTGGCCAAGCGCTTC
CAGCCCGACCTCTCCCTCCCAACCAACGTCCAGGTGGAGGTCACTACTATCGAGAGCACCAAAAGTGGTCTGAAG
TCAGAGAAGTTGGTGGAAACAGCTCACTGAATACAGCACAGACAAGGACGAGCCTCCAAAGGACGTCTTTGATGAA
TTATTTAAGCTGGCTCCGGAGAAAGTGAACGCAGTGAAAGAGGCCATCGTGAACCTTTGTCAACCAGAAGCTGGAC
CGCCTGGGCCTGTCTGTGCAGAATCTGGACACCCAGTTTGCAGATGGGGTCATCTTACTCTTGCTGATTGGACAA
CTTGAAGGCTTCTTCCTGCACTTAAAGGAATTCTACCTCACTCCCAACTCTCCTGCAGAAATGCTGCACAACGTC
ACCCTGGCGCTGGAGCTGCTGAAGGACGAGGGCCTGCTCAGCTGCCCTGTCAGCCCTGAAGATATCGTGAACAAG
GATGCCAAGAGCACACTGCGGGTGCTCTATGGTCTGTTCTGCAAGCACACGCAGAAGGCACACAGGGACAGGACG
CCCCATGGAGCCCCGAATTGA

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FIGURE 6102

MEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPTSRKDPKFEELQKVLMEWINATLLPEHIVVRSLEEDMFDG
LILHHLFQRLAALKLEAEDIAALTATSQKHKLTVVLEAVNRSLQLEEWQAKWSVESIFNKDLLSTLHLLVALAKRF
QPDLSLPTNVQVEVITIESTKSGLKSEKLVEQLTEYSTDKDEPPKDVDFELFKLAPEKVNAVEAIVNFVNQKLD
RLGLSVQNLDQTQFADGVILLLLIGQLEGFFLHLKEFYLTNPSPAEMLHNVTLALELLKDEGLLSCPVPEDIVNK
DAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN

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FIGURE 6103

CTGAGCCTCTCCGTGCAATGATTAACCCGGCGGGCGGCCGGCGCGGGACCCGAGACGGAGGCGCGGGGCCGGGG
CGGGACCCCGCAGGACCGCTCGGCTTCCTGCTCTCGCCGGAGTTTCCGCGTAGAGGGCGCATCGCCGGCCCGGGG
CCCTTGGTGCGGCGTGGCGCAGGGCGCGGGCGTGGGGCGCGCGTGGGCGCGGCGCAGGCGGCCCGGGTCACCATGA
GGACTCTCCGCAGGTTGAAGTTCATGAGTTCGCCCAGCCTCAGTGACCTGGGCAAGAGAGAGCCGGCCGCCCGCG
CGGACGAGCGGGGCACGCAGCAGCGCCGGGCCTGCGCCAACGCCACCTGGAACAGCATCCACAACGGGGTGATCG
CCGTCTTCCAGCGCAAGGGGCTGCCCGACCAGGAGCTCTTCAGCCTCAACGAGGGCGTCCGGCAGCTGTTGAAGA
CAGAGCTGGGGTCCTTCTTACGGAGTACCTGCAGAACCAGCTGCTGACAAAAGGCATGGTGATCCTTCGGGACA
AGATTGCTTCTATGAGGAGCTGCAGAGAGACAAGGCGGCGGCGGCTGCTGTGCTGGGTGCAGTGAGGAAGAGGC
CCTCGGTGGTGCCCATGGCTGGCCAGGATCCTGCGCTGAGCACGAGTCACCCGTTCTACGACGTGGCCAGACATG
GCATTCTGCAGGTGGCAGGGGATGACCGCTTTGGAAGACGTGTTGTACGTTACGCTGCTGCCGGATGCCACCCCT
CCCACGAGCTGGACCACCAGCGGCTGCTGGAGTATTTGAAGTACACACTGGACCAATACGTTGAGAACGATTATA
CCATCGTCTATTTCCACTACGGGCTGAACAGCCGGAACAAGCCTTCCCTGGGCTGGCTCCAGAGCGCATACAAGG
AGTTCGATAGGAAAGACGGGGATCTCACTATGTGGCCAGGCTGGTCTCGAACTCCAAGCTCAAGCGATCCTCCC
ACCTCAGCCTCCCAAAGTACTGGGATTACAGGTACAAGAAGAACTTGAAGGCCCTCTACGTGGTGACCCCAACA
GCTTCATCAAGGTCTGTGGAACATCTTGAAGCCCCTCATCAGTCACAAGTTTGGGAAGAAAGTCATCTATTTCA
ACTACCTGAGTGAGCTCCACGAACACCTTAAATACGACCAGCTGGTTCATCCCTCCCGAAGTTTTCGGGTACGATG
AGAAGCTCCAGAGCCTGCACGAGGGCCGGACGCCGCTCCACCAAGACACCACCGCCGCGGCCCCCGCTGCCCA
CACAGCAGTTTGGCGTCAGTCTGCAATACCTCAAAGACAAAATCAAGGCGAACTCATCCCCCTGTGCTGAGGT
TCACAGTGACGTACCTGAGAGAGAAAGGCCTGCGCACCGAGGGCCTGTTCCGGAGATCCGCCAGCGTGACAGCG
TCCGCGAGATCCAGAGGCTCTACAACCAAGGGAAGCCCGTGAACCTTGACGACTACGGGGACATTACATCCCTG
CCGTGATCCTGAAGACCTTCTGCGAGAGCTGCCCCAGCCGCTTCTGACCTTCCAGGCCTACGAGCAGATTCTCG
GGATCACCTGTGTGGAGAGCAGCCTGCGTGTCACTGGCTGCCGCCAGATCTTACGGAGCCTCCAGAGCACAAC
ACGTGCTCCTCCGCTACCTCATGGGCTTCTGTCATGCGGTGTCCCGGGAGAGCATCTTCAACAAAATGAACAGCT
CTAACCTGGCCTGTGTCTTCGGGCTGAATTTGATCTGGCCATCCAGGGGGTCTCCTCCCTGAGTGCCCTTGTGC
CCCTGAACATGTTCACTGAACTGCTGATCGAGTACTATGAAAAGATCTTCAGCACCCCGAGGCACCTGGGGAGC
ACGGCCTGGCACCATGGGAACAGGGGAGCAGGGCAGCCCTTTGCAGGAGGCTGTGCCACGGACACAAGCCACGG
GCCTCACCAAGCCTACCTACCTCCGAGTCCCCTGATGGCAGCCAGAAGACGTCTCTAGTGTGCGAACACTCTG
TATATTTGAGCTACCTCCACACCTGTCTGTGCACTTGTATGTTTTGTAACTTGGCATCTGTAAAAATAACCA
GCCATTAGATGAATTCAGAACCTTCTAATGAAAACCTCATGCCTCTGGTCCTTGGACTCTTGTCCATGGTTCCTG
AGCTGTGGACCGGGATAGAAT

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FIGURE 6104

GGCCCAGGCTGAAGCTCAGGGCCCTGTCTGCTCTGTGGACTCAACAGTTTGTGGCAAGACAAGCTCAGAACTGAG
AAGCTGTCACCACAGTTCTGGAGGCTGGGAAGTTCAAGATCAAAGTGCCAGCAGATTTCAGTGTCATGTGAGGACG
TGCTTCCTGCTTCATAGATAAGAGCTTGGAGCTCGGCGCACAAACCAGCACCATTCTGGTTCGCGATGGTGGACACGG
AAAGCCCCTCTGCCCCCTCTCCCCACTCGAGGCCGGCGATCTAGAGAGCCCCGTTATCTGAAGAGTTCTCTGCAAG
AAATGGGAAACATCCAAGAGATTTTCGCAATCCATCGGCGAGGATAGTTCTGGAAGCTTTGGCTTTACGGAATACC
AGTATTTAGGAAGCTGTCTGGCTCAGATGGCTCGGTTCATCACGGACACGCTTTTACCAGCTTCGAGCCCCCTCT
CGGTGACTTATCTGTGGTCCCCGGCAGCGTGGACGAGTCTCCAGTGAGCATTGAACATCGAATGTAGAATCT
GCGGGGACAAGGCCTCAGGCTATCATTACGGAGTCCACGCGTGTGAAGGCTGCAAGGGCTTCTTTTCGGCGAACGA
TTGCACTCAAGCTGGTGTATGACAAGTGCGACCGCAGCTGCAAGATCCAGAAAAAGAACAGAAACAAATGCCAGT
ATTGTCGATTTACAAAGTGCCCTTTCTGTGGGATGTACACAACGCGATTTCGTTTTGGACGAATGCCAAGATCTG
AGAAAGCAAACTGAAAGCAGAAATTCTTACCTGTGAACATGACATAGAAGATTCTGAAACTGCAGATCTCAAA
CTCTGGCCAAGAGAATCTACGAGGCCTACTTGAAGAACTTCAACATGAACAAGGTCAAAGCCCGGGTCATCTCT
CAGGAAAGGCCAGTAACAATCCACCTTTTGTACATATGATATGGAGACACTGTGTATGGCTGAGAAGACGCTGG
TGGCCAAGCTGGTGGCCAATGGCATCCAGAACAAGGAGGCGGAGGTCCGCATCTTTCACTGCTGCCAGTGACGTC
CAGTGAGACCGTTCACGGAGCTCACGGAATTCGCCAAGGCCATCCCAGGCTTCGCAAACTTGGACCTGAACGATC
AAGTGACATTGCTAAAATACGGAGTTTATGAGGCCATATTCGCCATGCTGTCTTCTGTGATGAACAAAGACGGGA
TGCTGGTAGCGTATGGAAATGGGTTTATAACTCGTGAATTCCTAAAAAGCCTAAGGAAACCGTTCTGTGATATCA
TGGAACCCAAGTTTGATTTTGCCATGAAGTTCAATGCACTGGAAGTGGATGACAGTGATATCTCCCTTTTTGTGG
CTGCTATCATTTGCTGTGGAGATCGTCTGGCCTTCTAAACGTAGGACACATTGAAAAATGCAGGAGGGTATTG
TACATGTGCTCAGACTCCACCTGCAGAGCAACCACCGGACGATATCTTTCTCTCCCAAACTTCTTCAAAAA
TGGCAGACCTCCGGCAGCTGGTGACGGAGCATGCGCAGCTGGTGCAGATCATCAAGAAGACGGAGTCGGATGCTG
CGCTGCACCCGCTACTGCAGGAGATCTACAGGGACATGTACTGAGTTTCCTTCAGATCAGCCACACCTTTTCCAGG
AGTTCTGAAGCTGACAGCACTACAAAGGAGACGGGGGAGCAGCAGATTTTGACAAAATATCCACCACTTTAACC
TTAGAGCTTGGACAGTCTGAGCTGTAGGTAACCGGCATATTATCCATATCTTTGTTTTAACCAGTACTTCTAAG
AGCATAGAACTCAAATGCTGGGGGAGGTGGCTAATCTCAGGACTGGGAAG

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FIGURE 6105

MVDTESPLCPLSPLEAGDLESPLSEEFLOEMGNIQEISQSIGEDSSGSFGFTEYQYLGSCPGSDGSGSVITDTLSPA
SSPSSVTYPVVPGSVDESPSGALNIECRICGDKASGYHYGVHACEGCKGFFRRTIRLKLVDKCDRSCKIQKKNR
NKCQYCRFHKCLSVGMSHNAIRFGRMPRSEKAKLKAELTCEHDIEDSETADLKSLAKRIYEAYLKNFNMNKVKA
RVILSGKASNPPFVIHDMETLCMAEKTIVAKLVANGIQNKEAEVRIFHCCQCTSVETVTELTEFAKAIPGFANL
DLNDQVTLLKYGVYEAIFAMLSVMNKDGMLVAYGNFITREFLKSRLKPFCDIMEPKFDFAMKFNALELDDSDI
SLFVAAIICGDRPGLLNVGHIKMQEGIVHVLRLHLQSNHPDDIFLFPKLLQKMADLRQLVTEHAQLVQIIKKT
ESDAALHPLLQEIYRDMY

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FIGURE 6106A

CAACTTCCGGAAGGAGGCGGAAGAGCTTCTCGGCTCTAGGCTCTGGAGTCCCGGGAGCAGTGAGGGGCCACCCGG
GGCACAGGAAAGGGCCGCTAGGGGAGGGCCGGGTGCACTCGGGGTGTCTGGGCCGCGGGTCTGAGGGATGAGGAG
GGGCCATGGCCAGCGACGGGGCCAGGAAGCAATTCTGGAAGCGCAGCAACAGCAAGCTCCCGGGCAGCATCCAGC
ACGTGTATGGTGCCAGCACCCCCCTTTGATCCACTGTTACATGGCACTTTGCTCAGGTCCACGGCCAAGATGC
CGACCACACCAGTGAAGGCCAAGAGGGTCAGCACCTTCCAGGAGTTTGAGAGCAATACCAGCGATGCCTGGGACG
CTGGGGAGGACGACGATGAGCTCCTGGCCATGGCGGCGGAGAGCCTGAACTCCGAGGTGGTTCATGGAGACGGCCA
ACCGTGTGCTGCGTAACCACAGCCAGCGGCGAGGGGCGGGCCACGCTGCAGGAGGGGCCAGGGCTTCAGCAGAAGC
CCAGGCCCCAGGCAGAGCCGCCCTCACCCCCAGCGGCGACCTCCGGCTGGTGAAGTCGGTCAGTGAGAGCCACA
CGTCTGTCTGTCAGAAAGTGCCAGCGATGCCGCCCTCTGCAGAGGTCCCAGTCTCTCCACACTCGGCCACCG
TCACGCTGGGTGGCACATCTGACCCAGCACTCTCAGCAGCTCAGCGCTGAGCGAAAGAGAGGCCTCCCGGCTCG
ACAAGTTCAGCAGCTGCTTGCCGGCCCCAACACGGACCTTGAGGAATTACGGAGGTTGAGCTGGTCCGGAATCC
CTAAGCCAGTGCGTCCAATGACGTGGAAGCTCCTCTCAGGTTACCTTCCCGCCAATGTAGACCGGAGACCAGCCA
CTCTCCAGAGAAAACAAAAGAATATTTGCATTTATTGAGCACTATTACGATTCTAGGAACGACGAAGTTCACC
AGGACACATACAGGCAGATCCACATAGACATCCCTCGCATGAGCCCTGAAGCGTTGATCCTGCAGCCCAAGGTGA
CGGAGATTTTTGAAAGGATCTTGTTTCATATGGGCGATCCGCCACCCAGCCAGTGGATACGTTTCAGGGTATAAATG
ATCTCGTCACTCCTTTCTTTGTGGTCTTCATTTGTGAATACATAGAGGCAGAGGAGGTGGACACGGTGGACGTCT
CCGGCGTGCCCGCAGAGGTGCTGTGCAACATCGAGGCGGACACCTACTGGTGCATGAGCAAGCTGCTGGATGGCA
TTCAGGACAAC TACACCTTTGCCCAACCTGGGATTCAAATGAAAGTGAAAATGTTAGAAGAACTCGTGAGCCGGA
TTGATGAGCAAGTGCACCGGCACCTGGACCAACACGAAGTGAGATACCTGCAGTTTGCCTTCCGCTGGATGAACA
ACCTGCTGATGAGGGAGGTGCCCTGCGTTGTACCATCCGCCTGTGGGACACCTACCAGTCTGAACCGGACGGCT
TTTCTCATTTCCACTTGTACGTGTGCGCTGCTTTCTCGTGAGATGGAGGAAGGAAATACTAGAAGAAAAAGATT
TTCAAGAGCTGCTGCTCTTCTCCAGAACCTGCCACAGCCCACTGGGATGATGAGGACATCAGCCTGTTGCTGG
CCGAGGCC TACCGCTCAAGTTTGCTTTTGCCGACGCCCCAATCACTACAAGAAATGAGCCCAGGCCACCCGC
AGCTGGCCTCACTGTCCCGGTGGCGCGCCCCACCTGCCTGGCTGGTGGTAGGCCCTGTGAGCTGGTCCCGGGC
TGCTAAAAGGCCTTGTGAGGTGGCCCCACCTCCAGGGGAGCTGGTGAAGATGGGCCACAGACCTGGTCTAGGGC
TGACAAAGACAGGGACAGCCTTTGTTTTCTGAGATACCAAAGAGAGGCCAGGGAGGGCCCCGGGTTCCGGGCCA
GAGGCAGGT CAGGGGTCCCCTCTCCCTCTCCCTGCAATGTCTTGCCTGAGTGCCTGCTGCTGCCCTTAGTC
CGGGGACGCTAGGAGCCGACCTCTTTGGAGTCTGCTGAGTGGGAGGCCGGAACGAGGTAGTGGCCA
TCTCATACCTACTCTGAAATGCAAACTTCTATTCTGTTGAGTGAAAGAATAAAATGTAGACAAAATCTAGACCG
AGACGTTGCGCTGACCCGGGGTCTCTGTGCGCGAGGTCCCCTCACAGCTGTATTTCACTGCTGCTGGCCCTTTC
CCTCCGTGTGTTTTCTGCTTGCTTGTTTAAACGTGGCTGGGAAGCTGAAGGCTGGAGTCCAAGCCGTGAGCCC
GCCGAGTGCCTGGGAGGCCGTGGGACCAAAGGCTGGGAGCAGAGGGAGGCCTCGCCATCGCCTTACTTTCCACCT
TGAACCTCTTTTACAAGAGAGAAACCCCACTCCCTGAGGTCCAGGGCCAAGTGGCCCCGCCACGCAGGTAGGC
GCCGGCCTCAGCCAGAGCCCTGGAGGCCACCCAGGCTGTGCGGCCATGTTGGGCTGGCAGACGGGCAGGGGT
CGCGTCCCTGTCTATCAAAGCCCTGAACCACAGTGCTCTTCTCACCAGCAGCTGGAAGCGGAATGAGCTTTTGAG
ACTTCTCTGGGACTTGCTGTCTTGTCCAGGTCTGCCAGGTGTAGGGGAGGTGTGACTGGTTCCATCATGGACCGG
TTCTCTCATGGACCGGTTCTCTCGTGGACCGGTTCCGCCATGGACCGGTTCCGCCATGGACCACTCCTGCCCTGG
ACCACTCCTGCCCTGGACCGGTTCTGCCGTGGACTGGTTCCCGCCGTGGACAGTTCCTGCTGTATACTGGTTCT
GCCCTGGACTGGTTCCCGCTGTGGACTGGTTCCCTGGGGCTCTAAGTGCGGAAGGGCCAGAGCTGGTCCCTGCC
CAGCGCCCTGCTAGGGCTGTGTCTTGGCTCCAGGGGCTTGGGACTGGCTTCCAGCGTTCCCTCGGTGTGTCA
CAGGCTGCATGACCCCTGGAATGCGGGCAGGGCCACAGCCACAGTCTGTCTGATCCCTGAGCCCAGGACAGGCTC
ACGTCTCTCAGCGACCCACTGGTGACTGACTTCCCAGACTCTCCTCTGTCCCTCAGGAGCAGCCGTGTCTCTCCC
AGGCCCTAGGACACTGCCAGAGACTGTGGGACATACAGGCATAAGTGATGTGTGTGTTTCTGCTTCTGTTTTAAA
AATCCAGGGTCATTACACACAGCATGGAATTAGCACAAAATGCTGTGCAACGTCAGATGCTCCCAAACCAGCA
AAGGGATGGGCTTGCTTCACATCAGATGCGGGCACGCTTACCCCTGCCTTCCGTGTCCCCACCCAGGGTCAAG
GGTTCCTCAGACCAGCCATGCCTCCTCCTCCTGCCGCTCCTTTTCTAGATGGGGAGGGGATTCCGTCACAAGAA
GAGCCGCCCTCGGCCGTGTGCAGGAAGCCCCATGTCGCTTTGCCGAGATCAGCCCTGGGAGGATCCCCTTCTCC
AGCTCAGATCATGCCGTGTGGCCAGAAGGCTGCGGACACAAC TACCTGCTTCTCGAGGTGGTTGATGTTTTAAA

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FIGURE 6106B

CAGGAAGCTCCACGGAGTTCAGCCCTGTGTGCATTTCTCATGTATGTAAACGCCAAGACTGAATGTGAGAGGTG
TTGGCCGCGGGCCTTAAGTCTGAGCAGATCCATCTGGAATGTTTCGGGGTGTGCTGTCTGGATGTGGTGCGCTAAA
AACACGGAATAAAGATCAGTGAC

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FIGURE 6107

MASDGARKQFWKRSNSKLP GSIQH VYGAQHPPFDPLLHG TLLRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAG
EDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQKPRPEAEPPSPPSGDLRLVKS VSESHTS
CPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPK
PVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYSRNDDEVHQDTYRQIHIDI PRMSPEALILQPKVTE
IFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEVDTVDVSGVPAEVL CNIEADTYWCMSKLLDGIQ
DNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFS
HFHLYVCAAF LVRWRKEILEEKDFQELLLFLQNLPTAHWDDEDI SLLLA EAYRLKFAFADAPNHYKK

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FIGURE 6108A

GTCCGGCGGCGTCGCGGGCGGCGGGCGGCGGGGCCGCGGGAGGGGCGCGGGGGCAGACAAAGCCGCGGTAATGAA
TGGAGCGTCCGCCCGCGCCGCCGTCGTCGCCAGCCGGCCGGGAGCCGCCCCAGAGGCGGGCCGAGGTAATGCAC
AAGGGTCACGTGTATGCTCTCAAGATGATCAGGCAGATCCTGTCTCAGGACCAGAAGCACGTCTCTGCTGCACA
CATTGTTGTCTACACCATGAGTGTITAGTAGCAGGACTCTTGAAAGCAGTGATCTATGCTGTAAGACCATGAGT
CACAGATTCTTTTTTTCAGTACTATTTATGATTAGCCATATTTCTAGAAACATCCTGAAAGATGGAATTATGACG
AAAAAGTGAAGATAATCTACATTCGGGGGCGACAAATGAGCACTTGGAATCAGTGTTTTATGAACCTAAGATACAGC
CGGAGTAGTTATGGTCAGTCATGGAGAATAAATTGAAACTTGTCCCAAAGAGGACGGTGATTTCTGTTTCTGATA
AAATAAAGTTTAAATAGAAAGAGGAAGATGATGATGGAATTCCTCCTGATAGTTTGGAAAGAATGGACTTTAAAA
GCGAGCAGGAGGACATGAAGCAGACAGACAGCGGTGGGGAGCGAGCGGGCCTCGGTGGGACGGGTTGCAGCTGCA
AGCCCCCGGGGAAGTACTTGTCTGCAGAGAGTGAGGATGACTATGGCGCGCTGTTCTCCAGTACAGCAGCACCC
TATACGACGTGGCCATGGAGGCCGTGACCCAGAGCCTCCTTTCCAGCCGGAACATGAGCTCCAGGAAGAAGTCTC
CAGCCTGGAAGCATTTTTTATCTCTCCCCGAGACAGCACTAAAGCAATATGCATGTACTGTGTGAAGGAGTTCA
GCAGAGGCCAAAAACGAGAAAGACTTGAGTACCAGTTGTCTCATGAGGCACGTGAGGCGCGCACACCCGACCGTGC
TCATTACAGGAAAATGGCAGTGTGTCTGCCGTGTCTCGTTCCCTCTCCTCCTCCTGCTTCCACCACAGCCTG
CGGACGCGGGTGACCTCAGCACCATCTCTCACCCATCAAACCTTGTCAGAAAGTGGCGTCTAAGATCCCGTCCC
CCGATCGAATAACAGAGGAGTCTGTGTCTGTAGTTTCTTCTGAAGAAATCTCCTCTGACATGTCCGTTTCGGAGA
AGTGCGGCAGAGAAGAAGCCCTGGTGGGGTCTGTCTCCCCACCTCCCTGCTCTCCATTACGATGAACCTGCAGAGA
ACTTAGCGGAGAAGAGCCTTCCACTTCCAAAGAGCACCTCTGGGTCCAGGAGAAGGTCCGCTGTCTGGAAGCACT
TCTACCTGTGCGCACTGGACAACCTCCAAAGCTGTCTGCATTCACTGCATGAACGAGTTCAGCCGGGGGAAGAATG
GGAAGGACCTGGGCACGAGCTGCCTCATCAGGCACATGTGGAGGGCACACCGCGCCATCGTGTGTCAGGAGAACG
GGGGCACGGGCATCCCGCCACTGTACTCCACCCCTCCCACTCTGCTGCCTTCTTGCTGCCGCCGGAGGGGGAGC
TCAGCTCTGTGTCTCGTCTCCAGTAAAGCCGGTCAGAGAGTCCCCTTCGGCCTCCTCCTCCCTGACAGGCTGA
CTGAGGACTTGCAGTCTCACTTGAACCTTGAGATGGGCTGATGGAAGACGTGGCGGCCTTCTCATCTTCCGATG
ACATAGGGGAGGCCTCGCGTCTCTCCTGAGAAGCAGCAGGCTGATGGGCTGAGTCCTAGATTGTTTGAATCTG
GCGCCATCTTCCAGCAGAATAAAAAGGTGATGAAAAGACTGAAGTCGGAGGTCTGGCATCACTTCTCCCTGGCCC
CCATGGACGGCCTCAAGGCCGAGTGTGGTACTGCGGCTGTGCCATCAGCCGGGGGAAGAAGGGTGATGTGGGCA
CCAGCTGCCTGATGAGACATCTCTACCGGCGCCATCCAGAAGTTGTGGGAGCCAGAAGGGCTTCTCGGGTGCAA
GTCTGGCAAACCTCTCCGTATGCCACTTTGGCCTCTGCAGAAAGTTCTCTTCCAAATTGACTGACTTGCCAACAG
TGGTCACAAAAACAATCAAGTTATGTTTCTGTTAATAGCAAAAAGACCTCGAAGCTGTGGAATCATTTTTCTA
TTTGCTCCGCAGACTCCACAAAGTCGTGTGCTTGCACTGTGGCCGGACCATCAGCCGGGGGAAGAAGCCGACTA
ACTTGGGTACCAGCTGTCTTCTGAGACATTTACAGCGGTTCCATAGCAACGTGCTGAAACTGAGGTCTCGGAGA
CGGCTCGGCCCTCCTCTCCGGACACCCGGGTGCCGCGGGCACAGAATTATCAGGCGCTTCTCTTTTGATGACA
CCAATGAGAAGTTTTACGATTCTACCCAGTTGCCAAAAAATCACAAGTCTCATAGCTGAAATGATTGCACTTG
ACCTCCAGCCATATTCTTTTGTAGACAACGTTGGCTTTAACAGGCTGCTTGAATACTTGAAACCTCAGTACTCCC
TCCCCGCCCTTCTACTTCTCCAGGACAGCTATCCCAGGTATGTATGATAATGTGAAGCAGATAATTATGTCCC
ACCTTAAGGAAGCTGAGAGTGGTGTGATCCACTTACGCTCTGGAATATGATGAGTAACCAAGACCCGTGAGTACC
TGACCCTCAGGCCCCACTGGGTTTCTTTCAGTCTGCCAGCCCGCGCGCTGTGACGACCACCACTGCTCGGCGC
TGTTGGACGTGTGCGAGGTGGACTGCGACTACAGTGGCAACAGCATTCAGAAGCAGCTGGAGTGCTGGTGGGAAG
CGTGGGTGACCTCCACCGGCCTTACAGGTGGGCATCACCGTCACCGACAACGCCAGCATCGGGAAGACGCTGAACG
AGGGGGAGCACTCGAGCGTGCAGTGTTCAGCCATACGGTGAACCTGATCGTCAGCGAGGCCATTAAGAGCCAGC
GGATGGTGCAGAACCTGCTGAGCCTCGCCCGGAAGATCTGCGAGCGGGTGACCGGTGCCCCAAGGCGAAGGAGA
AACTGGCCGAGCTGCAGAGGGAGTACGCGTGCCTCAGCATCACCTCATCCAGGACGTCCCGTCCAAGTGAGCA
CTTCTTCCACATGCTCGAGCGGCTCATTGAGCAGAAAAAGGGCCATTAACGAGATGTCCGTGAGTGTAACCTTCC
GAGAGCTGATCAGCTGCGACCACTGGGAGGTGATGCAGTCCGTGTGCCGTGCGCTAAAGCCCTTCGAGGCTGCGA
GCCGGGAGATGAGCACGAGATGTCCACCCCTAGCCAGGTGATCCCATGGTACACATCTCAACAGGAAGGTGG
AGATGCTCTTCGAGGAGACGATGGGCATCGACACCATGCTGCGCTCTCTGAAGGAGGCCATGGTGAGCCGCTGT
CTGCCACCTCCACGACCCGCGGTACGTCTTCGCCACGCTGCTGGATCCTCGCTACAAGGCCCTCCCTGTTTACGG
AGGAGGAGGCGGAGCAGTACAAACAGGATTTAATCAGGGAACCTGAACCTCATGAATTCTACCTCAGAGGACGTGG

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FIGURE 6108B

CTGCCTCCACAGGTGTGATGCTGGCTCCCCGTCGAAAGACTCTGCCGCAGAGGAGAACCTGTGGTCACTTGTGG
CCAAGGTGAAGAAGAAAGACCCAAGAGAAAAGCTGCCTGAAGCCATGGTGCTTGCGTATCTGGAGGAGGAGGTGC
TTGAACACAGCTGTGACCCGCTCACCTACTGGAACCTGAAGAAGGCGTCCTGGCCGGGGCTGTCCGCGCTGGCCG
TCAGATTTTTGGGCTGCCCCCAAGCATCGTCCCTTCAGAAAAGCTGTTCAACACACCCACTGAGAACGGTAGCC
TTGGCCAATCCAGGCTCATGATGGAACATTTGAAAACTTATCTTTTTGAAAGTGAATCTTCCCTTAATATACT
TTCAGTATTGAACTCACGACGGCACCCTAGGCCAGAGGCGTGGCTGCCCCAGCGTTAGCAGCCTGTACCAGGT
CTATGACCCGCTCTGCCCACGGCTGTGTACGACATCAGACCAGGCACTCTCAGGGCCGCTCTCCAGCTCACCACA
GTGTCTCCACGTGCCCTTACCCCTTCTCCTTCAGGCCAAGTTTCGCGGGGTGTTTTATTAAGACGTCCACTAGAAA
TAGCTTGTCCTGTCAACTATGAAATATGGTGACTAGATTTTAATTCATAACCGTAAAGTTTTTAAAGTTTTGGG
TTAGTAATTTGTTTTACTAGAATGACAAAAGAAGATGTAAACCATTTTTATTCTGTAGGCTTTTTACTCAATTATGT
ACAAACCACAAATCAGGTACTGTATTTTAGTGAAGCATTGCTTTAATTGCAACAGAATAGCTTTTGTGGCTATCA
AATGAAATCTGTAATAGGAGGTGGAGGGCAAGCCATCCTGACTGAGCAGTTTTTAACCGCAGGTTCTAAAGTGT
CCCGCGGAGTACAGATAATATTCTGGAAGGTAAGTGTCTTACTACGACAGAGACGTGGCATTGTGAAACGAACTT
AGATGTTTCATGGAGCTTATTTTGAGAACTTTCCCATTTTCAGGTTTCTGCATTTCAGGCTTTACATGGTCAGTTAA
CTCAGAGATACCCAGCTGTTTATCATCAGCTCCTCTGAAATGTGATCCCTTTGTAAGTGTGCTCATCACTTCGC
CAGTGCCTTCAATGACACGCTGATGGCAGGTGGTCCCTGCTGAAACCCCCACGCCTCCGCTTCAGCATCTCCACG
CTCTGAAGCTGTCTTTCAAAATGTGTGCACTGACCCCTTGTTTGATCAAATTTGTGTAAAATTTTTTTAGAAGA
GATGGCTTATTAACAGGGAAGAAGCTTGTATATTCCAGTTGTAAGAATAGCCTTAGTGTTTAGATTTTTTTATG
ATAGGGAAGATGCGGCCATCACTGGGATATTTTCAAATCCCAAGGACATCAGAGTGAAGTGTGAGTTGTCAGATG
ATTTTAAAAGTTATGTCTTCAGAGAAAAAAGATTCAATTTCTCATTTTAAACCAATTAAATATTCTGAGTGAGA
CTAATCACTCATTGCTTACGACCTTTTAGAAAAGTTGTTTTGTTGAAATACTGTACGTACGCTTAATCTAAATT
TGCATTGACTATGTTTTAGTGTATTTATAAATGGTGAAGTCAAGTTTCTGAAATTAAACTTCTTATTTGCAATTTT

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FIGURE 6109

CCATGTTGGCCAGGCTGGTCTGAGAGAGAACTCCTGACCTCGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGG
GATGACAGGCGTGCGCCACTGCACCCGGCCCGTGAAGGTCTTTTCTGAAGGGAGCTACCTTTGAGAAGTGCCTGT
TGGGACAGAACTCCCTGCTCTGGTCTGACCCCTCTGCACGCTAGGGTGGTCTGCACCTGTCTGGGGAGGGGGCCAA
GGACACAGCACTGGGCTGGGGCAGGGCTCTGCGCTGGTGTGCTGCCATCCCAGTTCTGCCATTCCCCCAGCGC
ACCCCGCACCCGCCCTCCAGCTGATGCCCTGCTCCCTCTCTCTGCAGAACGGGCTCATGTCTGGGGCTGATGCAG
ATGCTGCTGCTGAAGGTGTCTGCACACATCACCGAGCAGCTGGGCATGGCCCCAGGTGGCGAGTTTCAGGGAGGCC
TTCAAGGAGGTGGGCACAGGGTGAGGTAGGGGGTGGCCACAGGGATGTTGGCTCACAGGGGTGGTCCGGGGTTCCC
AGTGCTCCCCAACACCCAGCCTCTGCTCCAGGCCAGCAAGGTGCCTTTCTGCAAGTTCCACCTGGGTGACCGACC
CATCCCCGTACCTTCAAGAGGGCCATCGCAGCGCTCTCCTTCTGGCAGAAGGTCAGGCTGGCTTGGGGCCTGTG
CTTCCTGTGACACCCATCAGGTAGGGCTGCCCCGGGACCCCTGGCCGGCCTGCAGGGTGGTCTGTGGGAGGCTC
CAGGCCCTCCTGTGACAGGTCCAAGCGCAGCCAATCCTCACTCAAGGCCTTCCCTGCCCTTTCCCTCCGCCACAAA
TCCCAAACAAACGTGCTGTGGTCCCTGCCCCGGTGTCCACAGTGCCAGCCCCACCCCCCAGCCCGTTGCCATCC
CTGCGGGGCTGCAGCCATCCCTCTCCACAGCAAGGATGACGTGGAACGCTGCAAGCAGAAGGACCTACTGGAGCA
GATGATGGCCGAGATGATTGGCGAGTTCCAGACCTGCACCGCACCATCGTCTCGGAGCGCGACGTCTACCTAAC
CTACATGCTGCGCCAGGCCGCGCGGGCGCCTCGAGCTGCCTCGGGCCTCTGACGGTGACGGCCGCCCGCAGGCGTG
GGACCCCTGTGAGGCTGAGGCCCGAGCAGGTACTGACCCCTGTCTTCCCCACAGCCGAGCCAGGAAGTGCG
TCCCCTCCGTGGTCTGTGGCGTCTGTGGGCATGGGCCACGTGCCTGGCATCGAGAAGAACTGGAGCACCACCTCA
ACATCCAGGAGATCATGACCGTCCCCCGCCGTCCGTCTCCGGCAGAGTGTCTCGGTGGCCGTGAAGCCGCCT
TCTTCGGCCTGCTGGGCTACAGCCTGTACTGGATGGGCCGCCGACCGCGAGCCTGGTCTGTCTGCTGCCCGCCG
CGCAGTACTGCCTGCAGAGGGTGACCGAGGCCCGGCACAAGTAGGAGACTGCTCCCCGCCCCGCTCGGGCCCTGA
GGAGCCAGTGCCCCCGCGGCACTTCTGGGTGCCAGGTGCATCCTAGCCCGCCGAGGCCCTGCCACCCCCATG
GGGGTCTGGGCCCGGCCTCGCCTGCCCTCCTGGGCCAGTCACCCCTCCCCCAGCCCAACCAATAAAGGATTATT
TAACTGTCTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 6110

MWLTGVVRGSQCSPTPSLCSRPARCLSSASTWVTDPSPSPSRGPSQRSPSGRRSGWLGACASCQTPSGRAAPGTL
AGLQGGLWEAPGPPVQVQAQPIILTQGLPCFFLPPQIPNKRAVVPARCPQCQPHPPSPLPIPAGLQPSLSTARMTW
NAASRRTYWSR

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FIGURE 6111

GCTGGGCGACGGCGCCGCCATGTACCTGGGCGAGGTGTGCACGGCGACCGGCGAGCGCTGGGAGCTGCAGCTCAA
GGGCGCCGGGCCACGCCCTTCTCCAGACAGGCCGACGGTCGCAAGGTCCTACGGTCAAGCATCCGGGAGTTTCT
ATGCAGCGAAGCCATGTTCCACCTGGGAGTCCCCACCACACGGGCGGCGCCTGCGTCACGTCCGAGTCCACGGT
GGTGCGCGACGTGTTCTATGATGGTAATCCCAAATATGAACAATGCACGGTTGTGTTGCGTGTAGCTTCCACTTT
CATAAGGTTTGGATCCTTTGAGATTTTAAAGTCTGCAGATGAGCACACAGGGCGTGCAGGCCCCAGCGTGGGGAG
GAACGACATTGAGTGCAGCTGCTCGACTATGTCATCAGCTCCTTTTACCCCGAGATCCAGGCTGCTCATGCCAG
CGACAGCGTGCAGAGAAATGCTGCCTTCTTCCGGGAGGTGACGCGGGCGCACGGCGCGGATGGTGGCCGAGTGGCA
GTGTGTGGGCTTCTGCCACGGCGTGCTCAACACCGACAACATGAGCATCCTGGGGCTCACCATCGACTACGGGCC
CTTTGGCTTCCCTGGACAGGTACGACCCCGACCACGTGTGCAATGCCTCCGACAACACCGGCCGCTACGCGTACAG
CAAGCAGCCCGAGGTGTGCAGGTGGAACCTGCGGAAGCTGGCCGAGGCCCTGCAGCCGGAAGTGGCCCTGGAGCT
GGGGGAGGCCATCCTGGCCGAGGAGTTTGACGCCGAGTTCCAAAGGCACTACCTGCAGAAGATGCGCAGGAAGCT
GGGCCTCGTGCAGGTGGAGCTGGAGGAAGACGGGGCGCTGGTGTCCAAGCTCCTGGAGACCATGCATCTGACCGG
TGCCGACTTCACAAACACCTTCTACTTGCTGAGCTCCTTCCCAGTGGAGCTAGAGTCGCCAGGCCTGGCGGAATT
CCTGGCCAGGCTGATGGAGCAGTGTGCCTCCCTGGAGGAGCTGAGGCTGGCCTTCCGGCCCCAGATGGATCCCCG
GCAGCTATCCATGATGCTGATGCTGGCGCAGTCAAACCCGAGCTGTTTCGCGCTTATGGGCACCCGGGCAGGCAT
CGCCAGGGAGCTGGAGCGTGTGGAGCAGCAGTCTCGGCTGGAGCAGCTGAGTGCGGCAGAGCTGCAGAGCAGGAA
CCAGGGCCACTGGGCTGACTGGCTACAGGCGTACAGAGCCCGGCTGGACAAGGACCTGGAAGGCGCTGGGGACGC
TGCCGCTTGGCAGGCTGAGCACGTGCGCGTGATGCACGCCAACAACCCGAAGTACGTGCTGAGGAACTACATCGC
GCAGAATGCCATCGAGGCTGCCGAGCGCGGGGACTTCTCAGAGGTGCGGCGGGTGCTGAAACTACTGGAGACCCC
TTACCACTGCGAGGCGGGGGCCGCCACAGACGCCGAGGCCACGGAAGCCGACGGGGCGGACGGCAGGCAGCGCTC
CTACAGCAGTAAGCCCCCGCTCTGGGCAGCAGAACTGTGCGTGACATTGATCTTCGTAACGGCCTCGGCACGCTCC
ACACCCCTGGAGTCTCCCGAGGCCCCCATGTGCTGCTGAGTGGCCAAGATGATGCCAGGCTGCCCTATACACTGG
GGGATTCTGCCCTGGCCCATGCACACCCGTCTTTCCATGATGGCAGAGACATCCAGTCAGGACCTGACCCGTCTC
TGTCTGAGGCCGGCTCAGCAGTGCAGCCTGGTCCCTGGGGGCTGGACCCAGGCTCCTAAATAAACAGCAACTCC
CTCG

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FIGURE 6112

MYLGEVCTATGERWELQLKGAGPTPF SRQADGRKVLRSSIREFLCSEAMFHLGVPTTRAGACVTSESTVVRDVFY
DGNPKYEQCTVVL RVASTFIRFGSFEIFKSAD EHTGRAGPSVGRNDIRVQLLDYVISSFY PEIQA AHASDSVQRN
AAFFREVTRRTARMVAEWQCVGFCHGVLNTDNMSILGLTIDYGPF GFLDRYDPDHVCNASDNTGRYAYS KQPEVC
RWNLRKLAEALQPELPLELGEAILAE EFDAEFQRHYLQKMRRKLGLVQVELEEDGALVSKLLETMHLTGADFTNT
FYLLSSFPVELESPGLAEFLARLMEQCASLEELRLAFRPQMDPRQLSMMLMLAQSNPQLFALMGTRAGIARELER
VEQQSRLEQLSAAELQSRNQGHWADWLQAYRARLDKDL EGAGDAAAWQAEHVRVMHANNPKYVLRNYIAQNAIEA
AERGDFSEVRRVLKLETPYHCEAGAATDAEATEADGADGRQRSYSSKPPLWAAELCVT

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FIGURE 6113

GATTCTCCCAGCAACAAGCTGCTGTACGCCAAGGAGATCTCCACCTACAAGAAGATGGTGGAGGATTACTACAAG
GGGATCCGGCAGATGGTGCAGGTCAGCGACCAGGACATGAACACACACCTGGCAGAGATTTCCTGGCGCCCCCTC
CCTGCGGCTGCACCCACGGCCGTGCCCACAGCGCCCCCTCCCTGCGGCTGCACCCCTCGGCCGTGCCCACAGCGCC
CCCTCCCTGCGGCTCCATCCACGGCCGTGTCCACAGCGCCCCCTCCCTGCGGCTGCACCCACGGCCGTGCCCACA
GCGCCCCCTCCCTGCGGCTCCACCCACAGCCCTGCTCACAGCACCCGTCCCTGTGGGTCCATCCACAGCCGTGCG
TCACACAGGGAGACACTGAGATGGTTGGATGTGCACAACCTCTGCCTGCGCGCACACGGACTCCTTGAACACCCTC
GTGGCACTCCACCAGCTCTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAGGAGGATCCT
GCCGCCCAGAAGATGCAGCTGGCCTTCCGCCTGCAGCAGATTGCCGCTGCACTGGAGAACAAGTCAGGGTGGGCT
TCCTAG

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FIGURE 6114

GCCCTGCTCTAGCGGGCCGCGTAGCGGACATGGCGGGCTCCCGGCTCCCGCGGCAGCTCTTCCTCCAGGGCGTG
CGGCCGTCTTCATGTTTGCTTTGCTTTCCCTCTACACGCAAATCCAGGCCTGTATGGCCCCGAGGGCATCCTAC
CTGCAAGGAGGACGCTGCGGCCTCAGGGCAAGGGGCGCTGGCAGCAGCTGTGGGAGACCCCGACGCTGCTGTGGG
AAGCGCCGAGACTGGGGCTGGACACGGCCAGGGCCTGGAGCTGCTGAGCCTGCTGGGTGCACTAGTGGCCCTGG
GAGCCCTGCTGCTGAGCCCACTGCGCCACCCTGTCACTACTTGTGCTTTGGGCCGCTACCTGTCAGCCTGCC
AGGTGGGCCAGGTGTTCCCTTTATTTCCAGTGGGACTCCCTGCTGCTAGAGACTGGCTTCCTGGCCGTGCTGGTGG
CCCCGCTGAGGCCAGCCTCCCAACCGCAAGGAGGCCCCCAAGGCGAGGCAGGCAGGGGCCCTGCCCCACGAAGACC
TCCCTTCTGGCTGGTGCGATGGCTGCTGTTCCGCCTCATGTTTCGCTCAGGCGTGGTCAAGCTGACCAGCCGCT
GCCCTGCGTGGTGGGGGCTCACTGCCCTCACCTACCACTACGAGACCCAGTGCCCTGCCACGCCCGCCGCTGGT
TCGCACACCACCTGCCGGTCTGGCTGCACAAGCTCAGCGTGGTGGCCACCTTCCTAATTGAGATCGCTGTGCCGC
CCCTGTTCTTCGCCCCCATTCGACGCTGCGCTTGGCTGCTTTCTACTCGCAGGTGCTGCTGCAGGTCTGTGATTA
TCATCACCGGCAACTACAACCTTCTTCAACCTGATGACGCTGGTGGCTTACCACTGCGCTGCTGGACGACCAGCACC
TGGCTGCTGAGCCTGGCCACGGCAGCCGCAAGAAGACGGCCACCTCCTGGCCCAAGGCCCTGCTGGCCACCTGT
CGCTGCTGCTGGAAGTAGCCGTCTACGGGCTTCTGGCCTATGGCACTGTGCACTACTTTGGCCTGGAGGTTGACT
GGCAGCAGCGCACCATCCACTCCAGAACCCTTTACCTTCCACCAGTTTCTCAGTGGCTGAAGACACTGACGC
TGCCCACTGTGTGGCTGGGTGTGGCCTCCCTGGTCTGGGAGCTGCTGAGTGCCCTGTGGAGGTGGACCCAGGTGC
GGGGCTGGCTACGGAAGCTCAGTGTGTAGTCCAAGTGTCCCTGTGGGCACTGCGACCGTGGCCTTGTTCCTGA
TTAGCCTGGTGCCGTACTCCTACGTGGAGCCCGGGACCCACGGGCGCCTCTGGACCGGGGCCACCGCCTGTTTG
GTGCCGTGGAGCACCTACAGCTGGCCAACCTCCTACGGCCTCTTCCGCCGATGACTGGGCTTGGTGGACGGCCTG
AGGTGGTGTGAGGGGAGTTACGACGGCCACCACTGGACGGAGATCGAGTTCATGTACAAGCCTGGGAACCTGA
GCCGGCCGCCCGGTTGTGGTGCCCCACCAGCCACGCCTGGACTGGCAGATGTGGTTTGCAGCCCTGGGGCCAC
ACACGCACAGCCCGTGGTTTACAAGCCTGGTCTTTCGCTGCTGCAGGGCAAGGAGCCAGTGATCCGCCTTGTCC
AGAGCCAAGTGGCCAGGTATCCCTTCCACAAGCAGCCGCCACCTACGTCCGAGCCAGCGCTACAAGTACTGGT
TCTCCAGCCTGGGGAGCAGGGCCAGTGGTGGCGGCCAGTGGGTGGAGGAGTTCTTCCCATCCGTGTCCCTGG
GGGACCCACGCTGGAGACGCTGCTCAGGCAGTTTGGACTACAGGAGAAAAGCCACCTCGCACCCGACGCGCA
ACAGCACCCCTGGCCAGGCCCTCCACTGGACTCGCTCTCAGCTGCTTCCCTGGAGGCCCGCCCTGCTCTGGG
GGCTCCTCATGGCCGTGGGGCTGTGAGATTTGTGCAAGCCCTGCTAGCACCTGTCTCTCCGGTCTCCCCGC
TGGCACCAGTCAGCGGGGAGAAGCGCAGGCCAGCCTCCAGAAAGACTCCGGAGCTGCCTCCGAACAGGCCACCG
CAGCCCCCAACCCCTGCTCCAGTAGTTTCGAGGACCACCGGCCGAAAGAAGTAGCTGTGTTCTCCAGCTGCACGT
CCTGAGAGGGCCAGGTGCGCGGGAGTGTCTGGCCTCCGGCAGGACAGGACCAGCCACTGTGCCTTAGCTGACC
CTGCAGGGCCAGGCACAGGTTGGGGGGCTGCCCTGGGGTTTGAGGGTGCTGCATTGAGGGCTCCAGGCCCCAC
CCCCACGCCAGCCATGCCCTCCCAGGACTCCCACTATTGCCTCTGTGATTGGCCAGGAGGAAAACACGACCA
AGCTCAAGACCCCTTCCCTGCCCTGGGCTGTGGGGTCTGAGTCTAGAGCCCCAACCCTAGGCCCCGTGCCAGA
GGGGAAGAGGCTGACTCCAGGGGAAGAGGGGAAGCACTGTCATCTTCCACGTATCTTACACCAGCCATCCT
GCCCTTTAGATCTGGGCACCAATAAAGGCGTCTTTTGTGCTTG

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FIGURE 6115

MAGSRLPRQLFLQGVAAVFMFAFASLYTQIPGLYGPEGILPARRTLRPQGKGRWQQLWETPTLLWEAPRLGLDTA
QGLELLSLLGALVALGALLSPLRHPVIYLLLWAAAYLSACQVGQVFLYFQWDSLLETFGLAVLVAPLRPASHRK
EAPQGRQAGALPHEDLPFWLVRWLLFRLMFASGVVKLTSRCPAWWGLTALTYHYETQCLPTPAAWFAHHLPVWLH
KLSVVATFLIEIAVPPLFFAPIRRLRLAAFYSQVLLQVLIITGNYNFFNLMTLVLTALLDDQHLLAAEPGHGSR
KKTATSWPKALLATLSLLELAVYGLLAYGTVHYFGLEVDWQQRTHSRTTTFHFQFSQWLKTLTLPTVWLGVAS
LVWELLSALWRWTQVRGWLRLKLSAVVQLSLVGTATVALFLISLVPYSYVEPGTHGRLWTGAHRLFGAVEHLQIAN
SYGLFRRMTGLGGRPEVVLEGSYDGHHWTEIEFMYKPGNLSRPPPVVVPHQPRLDWQMWFAALGPHTHSPWFTSL
VLRLQKGKEPVIRLVQSQVARYPFHKQPPTYVRAQRYKYWFSQPGEQGQWRRQWVEEFFPSVSLGDPTLETLLR
QFGLQEKSEPPRTSANSTLAQALHWTRSQLSPLEAPALLWGLLMAVGAVRFVQALLAPCSLRSSPLAPVSGEKRR
PASQKDSGAASEQATAAPNPCSSSSRTTRKK

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FIGURE 6116

AGCAAAATGGCGCCAGAACTAGTGGCGGGCTGAGGACGCCGTACCCCTCGGAAGGCAGCCCTGCGGTCCCTTTGC
CGCCCGTTCCCTCCCGGACATGGAGGACGTGGAGGCGCGCTTCGCCACCTCTTGAGCCCATCCGCGACCTCAC
CAAGAACTGGGAGGTGGACGTGGCGGCCAGCTGGGCGAGTATCTGGAGGAGCTGGATCAGATCTGCATTTCTTT
TGACGAAGGCAAGACCACAATGAACCTTCATTGAGGCAGCGTTGTTGATCCAGGGCTCTGCCTGCGTCTACAGTAA
GAAGGTGGAATACCTCTACTACTCGTCTACCAGGCCCTTGATTTTCATCTCTGGAAGAGGCGGGCCAAGCAGCT
CTCTTCGGTGCAGGAGGACAGGGCCAATGGGGTTGCCAGCTCCGGGTCCCCCAGGAGGCAGAGAATGAGTTCCT
GTCGCTGGATGACTTCCCTGACTCCCGGACTAACGTGGATCTCAAGAATGATCAGACGCCAGTGTGAGTCTCTCA
TCATCCCCCTCCTGCCCATGGCCCTGGTGGCCCCCTGATGAAATGGAGAAGAACACAATCCCCTGTACAGCCGTC
AGGGTGAGGTCTTGCCAGCCGGAAGGATTTAGGATGAACACGTGCGTTCCCCACCCAGAGGGGCCCTTCATGT
TGGAGCCAGAGGGCATGTCCCCATGGAACCAGCGGGCGTTTCCCCATGCCAGGGACCCAGAAGGACACCGGGA
GGACTGAGGAGCAGCCAATGGAAGTTTCCGTGTGACAGGAGCCCTGTCCAGCACTCGGCTTCTCCAGGAGCCAG
GCCCCCTCTCCAGAAGGCCCGATGCCCTGGGTGGGGGCGAGGACGAGGATGCAGAGGAGGCAGTAGAGCTTCCTG
AGGCCTCGGCCCCCAAGGCCGCTCTGGAGCCCAAGGAGTCCAGGAGCCCGCAGCAGAGTGCTGCCCTGCCAGGA
GGTACATGCTGCGGGAGCGGGAGGGGGCCCCAGAGCCTGCATCCTGCGTGAAGGAGACTCCAGACCCCTGGCAGA
GCCTGGACCCCTTTGACTCCTTGAGTCTAAGCCCTTCAAGAAAGGTAGGCCCTTACTCTGTGCCCCCTGTGTGG
AGGAGGCTCTGGGACAGAAGCGCAAGAGGAAGGGCGCTGCCAAGCTGCAGGACTTCCACCAGTGGTACCTGGCTG
CCTATGCAGACCATGCCGACAGCAGGCGGCTTCGGCGAAAGGGTCCGTCTTTGCAGACATGGAGGTCTGTACT
GGACACACGTGAAGGAGCAGTTGGAACTCTCCGGAAGCTGCAGAGGAGGGAGGTGGCTGAGCAGTGGCTGCGGC
CTGCAGAGGAGGACCACCTGGAGGATTCCTTGAAGACCTGGGGGCAGCAGATGACTTTCTAGAGCCTGAGGAGT
ACATGGAGCCCAGGGAGCAGACCCAGGGAAGCCGCTGACCTTGACGCAGTGCCGATGTCCCTGAGCTACGAGG
AGCTGGTTTGAAGGAATGTGGAGCTCTTCATCGCCACCTCCCAGAAGTTTGTCCAGGAGACAGAGCTGAGCCAGC
GCATCAGGGACTGGGAGGACACAGTGCAGCCTCTGCTCCAGGAGCAGGAGCAGCATGTGCCCTTTGACATCCACA
CCTATGGGGACCAGCTGGTCTCACGGTTCCCCCAGCTCAATGAGTGGTGTCCCTTTGCGGAGCTGGTGGCTGGCC
AGCCGGCCTTCGAGGTGTGTGTTCCATGCTGGCCTCCCTGCAGCTGGCCAATGACTACACAGTGGAGATAACCC
AGCAGCCCGGGCTGGAGATGGCCGTGGACACCATGTCCCTGAGACTGCTCACGCACCAGCGAGCGCACAAAGCGCT
TCCAGACCTACGCTGCCCCCTCCATGGCCCAGCCCTGAGTGGGGAGCACCCGAGGCAGGGGTGGGGGAATGTGTAC
TGAGGAGCCGTGTGTCTGCTCCTGGCTGGCCCCGGCCTAATAAAGCAGTGTGCCATCTCATCTTCCCCCTAAAA
CCCTTTTATGTACACCTGCGCAGAGAAGAGGGCTGCCCTGGCCTCCCTGGGCCGCTGGTACAGATCACACACAC
ACAGATTAAACGCAGCCCGTTTAAATGATGGGGCCAGACTGCAGTGGCTCAAGACAGGACACTGCGGAAAGCCGC
CATGTGCCCGCCGACACTGTCTGAGATCTGCTCAGCCGATCTGCTCCGGCCGTAGTAATCCGTGAAGAGGCCGTC
AGGGTTGAGCAGGTAGATGGCAATGGAGTGGTCCACGATGTAGTCTTGGTCTCATCTTGGGGCCTGCATTGTA
GTACACGCGGTAACCTGTGACTAGCCTGGGCAACCTGTTTGGTGGAGCCGCTCAGACCAACAGTCTTGGGTGGAA
GTCCTGGACGTAGCGGGCCATGGCTTCAACGTGCTCCGCTCGGGGTCCACAGTGATGAAGACAGGCTGCACTGG
AGGCAAACCAGGCTCTGCTTCCAGCTGCCGCACCACCTGCACCAGCTTCTCCAGCTCGTCTGGGCAGATGTCAGG
GCAGTGAGTGAAGCCAAAGTACATCAGCACCCACTGGCCCCGGAAGTCAGCCTTGACGCGAGCCCCGGCCTCTGTG
ATCCAGCAGGTGGAAGTCGCCCTGGCCACAGCTGCCTGGCGCAGGGCTTCTGTTGCTTTTGTGCTGCTGAGCCT
CTCCTTCTCAGCCCTCAGGGCCAGCCAGGCCCCACCGAGTCCAGCCCCGAACAGGCCTGTGATCAGCAGCCGGGT
TCGAAGCCCAGGGCCCTGGGGCTGGCCCTGCCACCTGTCTCTGCAGGGCCCTGCCTTGACAAAAGCCAGGACCT
CAGATGCAGGGCCTGGCCTCCAGGGTCCAGGGAGGACCCGAGGCTTGAGCTGAGAGAGCCTGTGCCAAGCTGT
GGGGCTCCGAGTCAGCAGCAGCATGGATCTGATGCTCCTGGAAACAAGCACAGGCGTCAGGAGCCAGAAGGGAAG
GCCAGGACAGTGCCTGGGCTGCCCTGCGACTTGAGACCAGCCACCCATCTGAAGGACCCAGCCACGTTTCAAG
CTTAACAGGCATTTGAGCTGCTCACCTGAGCTCAGAACTCCACCTCCACCAACATCCACACCTGGGCAACCAC
ACCTGTCACTCCTGTCTCTACCTGGGATCACCAGCCTGTACCCGACCCCTGCCCTGCACCTGCACCTCAGCAAG
GTGAACCTCTTGCTGACGGAAGCATTCGAAGTGCATGCCTTGCTGAACTAACCACGTTATCTATTTGAATAA
ACCCATTTCTTAAAGG

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FIGURE 6117

MALVAPDEMEKNNNPLYSRQGEVLASRKDFRMNTCVPHPRGAFMLEPEGMSPMEPAGVSPMFGTQKDTGRTEEQP
MEVSVCRSPVPALGFSQEPGPSPEGPMPLGGGEDEDAEEAVELPEASAPKAALPEKESRSPQOSAALPRRYMLRE
REGAPEPASCVKETPDWPQSLDPFDSLESKPFKKGRPYSVPPCVEEALGQKRKRKGAAKLQDFHQWYLAAYADHA
DSRRLRRKGPSFADMEVLYWTHVKEQLETLRKLQRREVAEQWLRPAEEDHLEDLEDLGAADDLFLEPEEYMEPEG
ADPREAADLDAVPMSLSYEELVRRNVELFIATSQKFVQETELSQRIRDWEDTVQPLLQEQQEHVFPDIHTYGDQL
VSRFPQLNEWCPFAELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEMAVDTMSLRLLTQHRAHKRFQTYAA
PSMAQP

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FIGURE 6118

GCTTTCCACAGCGCGGGGGAACGGGAGGCCGCGAGGATGGTCAAGCTGACGGCGGAGCTGATCGAGCAGGCGGGCGC
AGTACACCAGCGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTCCCGTCATTGAAAATCTAGGTG
CTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAACTGGATGGTTTTCTTTTGTTGA
GAAGACTGAAAACGTTGTAGTGAACAAAACAGAATATGCCGTATAGGTGAGGGACTTGATCAGGCTCTGCCCTG
TCTGACAGAACTCATTCTCACCAATAATAGGCTCGTGGAAGTGGGTGATCTGGACCCTCTGGCATCTCTCAAATC
GCTGACTTACCTAAGTATCCTAAGAAATCCAGTAACCAATAAGAAGCATTACAGATTGTATGTGATTTATAAAGT
TCCGCAAATCAGAGTACTGGATTTCAGAAAGTGAAACTAAAGAGCGTCAGGAAGCAGAGAAAATGTTCAAGGGC
AAACGGGGTGACAGCTTGCAAAGGATATTGCCAGGAGAAAGCAAACTTTTAATCCAGGTGCTGGTTTGCCAACT
GACAAAAGAAAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATGCTATAGCAAATGCTTCAACTCTG
GCTGAAGTGGAGAGGCTGAAGGGGTGCTGCAGTCTGGTCAGATCCCTGGCAGAGAACGCAGATTGGGGCCCACT
GATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAGCAGTGAGGCAGATGTATAATAAT
AGGCCGTCTTGGAACAAGTCTTGCTTTTCAAACATAGTATAATAGCCTTGTTTGTGTTAGCAAAGTGAATCTAT
CAGCATGGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGAATATAAGTTTTGAAATCTAAATGTCAATTTTC
TACAAATTATAAAAATAAACTCCACTCACTGTGCTACC

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FIGURE 6119

GTCTTAGCGGCTGCGCGGTGGCTGCTCCGTCTTTTCGGTCCAGGCGGCGGCAGGGCTGAGCCAGCGACGCCCTCC
ATTCACCTCTCCGCGCCCGTTCTCCGGCTGTCTCCCGTTCCGCTGCCCCGCCCTGCCACCATGACGGAACAGGCCA
TCTCCTTCGCCAAAGACTTCTTGGCCGGAGGCATCGCCGCCGCCATCTCCAAGACGGCCGTGGCTCCGATCGAGC
GGGTCAAGCTGCTGCTGTCAGGTCCAGCACGCCAGCAAGCAGATCGCCGCCGACAAGCAGTACAAGGGCATCTGTG
ACTGCATTGTCCGCATCCCCAAGGAGCAGGGCGTGTCTGCTCTTCTGGAGGGGCAACCTTGCCAACGTCAATTCGT
ACTTCCCCACTCAAGCCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGCGTGGACAAGC
ACACGCAGTTCTGGAGGTACTTTGCGGGCAACCTGGCCTCCGGCGGTGCGGCCGGCGCGACCTCCCTCTGCTTCG
TGTACCCGCTGGATTTTCGCCAGAACCCGCCTGGCAGCGGACGTGGGAAAGTCAGGCACAGAGCGCGAGTTCCGAG
GCCTGGGAGACTGCCTGGTGAAGATCACCAAGTCCGACGGCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCG
TGCAGGGCATCATCATCTACCGGGCGGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCGACCCCA
AGAACACGCACATCGTGGTGAGCTGGATGATCGCGCAGACCGTGACGGCCGTGGCCGGCGTGGTGTCTTACCCCT
TCGACACGGTGC GGCGGCATGATGATGCAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTCG
ACTGTTGGAGGAAGATCTTCAGAGATGAGGGGGGCAAGGCCTTCTTCAAGGGTGCGTGGTCCAACGTCTGCGGG
GCATGGGGGGCGCCTTCGTGCTGGTCTGTACGACGAGCTCAAGAAGGTGATCTAAGGGCCGCGGCCTCCTCCAC
ACACACACACACACCAGGGGAACCAAGAGAACCACGTAGAATCCTCAACCGTGCGGACCATCAACCTTCGAGAAA
TTCCAGTTGCTTTTTTCCAGCCGCATCCTGCCTGTAGATGGCCGGGGAAGGCTCTAGAAAAGGGGCGCATTGCG
ATCCAACCATCGGCAGCCGATTCCGTGTCTTGATCACGGGGTGGGAGGGAACCGTGGCGTCCCTGCGTGGGGCCC
ATGGGTGAGACACTCCAGTACTGAGACCTAGAGTCCAGATGCTTGTAGGAGCCAAGTCGTGTTCTAAGTATTTAT
TTAAAACAAAAGAATCACGTTTTCCCATTTGTACTTCAGCGCTAGCCCCTGTTTTGCACAGCCGAGTACTGGCGA
GTATGTTCTATGTTGGGCCTCCTGCTGCAAAACAATAAACAGAGGACGCAGAGGTC

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FIGURE 6120

MTEQAISFAKDFLAGGIAAAISKTA VAPIERVKLLLQVQHASKQIAADKQYKGIVDCIVRIPKEQGVLSFWRGNL
ANVIRYFPTQALNFAFKDKYKQIFLGGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGT
EREFRLGDCLVKITKSDGIRGLYQGFSVSVQGI I IYRAAYFGVYDTAKGMLDPKNTHIVVSWMIAQTVTAVAG
VVSYPFDTVRRRMMMQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFLVLVLYDELKKVI

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FIGURE 6121

ATGGTTCTCTTCGCCGCCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCTGGACGTGGCG
GCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTG
CTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTC
AGCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCAGAC
GCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATCTAC
AGGTCCGAGGGCGAGCGGCTACAGTTTATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGCTG
ACCGCCTTTGACCTGTCAGTGTTCCTTATGTGTGACCTTGGTGGTGGGGCTGGAGCTCTGGCTAAGGAATGC
ATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTC
TCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGACCTGCTCAATCCATAAGACGATTAATGAGTGCTAAT
GATGGCAAGCGCTCCAGAGGCTCCGGAAGCCACGGCTGGATTGGAGACAAGATGGGATCCTCAGAGGACCAGGCC
TATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGGTGAAGAGATGCAGAGGGTCCAAGAGGATT
TCACAGAGTTCACAGAAACCAGCTCCTCAAGAGACATCAAGTCACCCAAGAATAGACAAGCAGGATGATGCACGC
AGATCTTCCAGATGCTTCCAGATCTTCCAGATGCTCCCAGAAGAGCTAGAGCAGAGGCAATGA

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FIGURE 6122

TCCAAGGTTCTCTTCGCCGCTGCGAGCTGGGCGTGTTTGACCTTCTCGCCGAGGCCCCAGGGCCCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGTCCCTGAAG
CTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACG
GTCAGCCCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTGGCA
GACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTTCCCGCTGAAGAGCTTTTTACGGCCATC
TACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTG
CTGACCGCCTTTGACCTGTCAGTGTTCCCACTTATGTGTGACCTTGGTGGGACATGGATAAAGCTGGAAACCATC
ATTCTCAGCAAACATATCGCAAGGACAGAAAACCAAACACCGCGTGTTCTCACTCATAGGTGGGGCTGGAGCTCTG
GCTAAGGAATGCATGTCTCTGTACCCTGGATGTAAGATCACCGTTTTTGACATCCCAGAAGTGGTGTGGACGGCA
AAGCAGCACTTCTCATTCCAGGAGGAAGAACAGATTGACTTCCAGGAAGGGGATTTCTTCAAAGACCCTCTTCCG
GAAGCTGATCTGTACATCCTGGCCAGGGTCCTCCATGACTGGGCAGACGGAAAAGTGCTCACACCTGCTGGAGAGG
ATCTACCACACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTT
CTGCTCACGCAGCTCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCCACCCACTACCAC
ATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCC
AGGAAATAACTGTTTTCTTGTGACCTGGAATAACGTCAAAGCACACAAGACATAATAATAAAGACATGTACCTCC
A

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FIGURE 6123A

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGCTG
GCCTGCCCCGATCCTTGTGCTGCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCC
GCTGGCATTGCTAAACACGTGGAAAGAATCAATTTGGGGTTTAATAGCATACAGGCCCTGTCAGAAACCTCATT
GCAGGACTGACCAAGTTGGAGCTACTTATGATTACGGCAATGAGATCCCAAGCATCCCCGATGGAGCTTTAAGA
GACCTCAGCTCTCTTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGT
CTCTCTAATTAATGAGGCTGCACATTGACCACAACAAGATCGAGTTTATCCACCCTCAAGCTTTCAACGGCTTA
ACGTCTCTGAGGCTACTCCATTGGAAGGAAATCTCCTCCACCAGCTGCACCCAGCACCTTCTCCACGTTTACA
TTTTTGGATTATTTAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATGGTTAGAACTCTTCTGCTG
AGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCGATTGTGAGATG
AGATGGTTTTTGGAAATGGGATGCAAAATCCAGAGGAATTTGAAAGTGTAAAAAGGACAAAGCTTATGAAGGCGGT
CAGTTGTGTGCAATGTGCTTCAGTCCAAAGAAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGT
CTGAAGCCTTCAATAGAGTCCCTCTGAGACAGAACAGGAGCAGGAGTATTGAGGAGGAGCAAGAACAGGAAGAG
GATGGTGGCAGCCAGCTCATCCTGGAGAAATCCAACTGCCCCAGTGGAGCATCTCTTTGAATATGACCGACGAG
CACGGGAACATGGTGAATTTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACG
GATCCTCCAGATATTGACATAAATGCAACAGTTGCCCTGGACTTTGAGTGTCCAATGACCCGAGAAAACTATGAA
AAGCTATGGAAATTGATAGCATACTACAGTGAAGTTCCCGTGAAGCTACACAGAGAGCTCATGCTCAGCAAAGAC
CCCAGAGTCAGCTACCAGTACAGGCAGGATGCTGATGAGGAAGCTCTTTACTACACAGGTGTGAGAGCCCAGATT
CTTGACAGAACAGAATGGGTCAATGCAGCCATCCATAGATATCCAGCTGAACCGACGTCAGAGTACGGCCAAGAAG
GTGCTACTTTCTACTACACCCAGTATTCTCAAACAATATCCACCAAAGATACAAGGCAGGCTCGGGGCAGAAGC
TGGGTAATGATTGAGCCTAGTGGAGCTGTGCAAGAGATCAGACTGTCTGGAAGGGGGTCCATGCCAGTTGAGC
TGCAACGTGAAAGCTTCTGAGAGTCCATCTATCTTCTGGGTGCTTCCAGATGGCTCCATCCTGAAAGCGCCCATG
GATGACCCAGACAGCAAGTTCTCCATTCTCAGCAGTGGCTGGCTGAGGATCAAGTCCATGGAGCCATCTGACTCA
GGCTTGTACCAGTGCATTGCTCAAGTGAGGGATGAAATGGACCGCATGGTATATAGGGTACTTGTGCAGTCTCCC
TCCACTCAGCCAGCCGAGAAAGACACAGTGACAATTGGCAAGAACCCAGGGGAGTCCGTGACATTGCCTTGCAAT
GCTTTAGCAATACCCGAAGCCCACCTTAGCTGGATTCTTCCAAACAGAAGGATAATTAATGATTGCTGCTAACACA
TCACATGTATACATGTTGCCAAATGGAACCTTTCCATCCCAAAGTCCAAGTCAGTGACAGTGGTTACTACAGA
TGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTG
CCATCCAAAGAGAGCAGCGCCAGGTGCAAGGCTCTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGG
GGCTCGGGCATGGGAGATGAAGAGAACCTTCAAGGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCTCAAA
ACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAAGAAAGGGAGAAGAAAGCTGAAACTCTGGAAGCATTG
GAAAAAGAACCAGAGACCAATGTTGCAGAAGGTGCGAGAGTGTTTGAATCTAGACGAAGGATAAACATGGCAAAC
AAACAGATTAATCCGAGCGCTGGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAA
GTACCCCATTTGATTAATAACCAAGTCCTCCATCCTTGAGTCTAGAAGTCACACCACCTTTTCTGCTATTTCT
CCCCCTCAGCATCTCCTGTGCAGACAGTAACCAAGTGTGAGAAATCCTCAGCAGATGTACCTCTACTTGGTGAA
GAAGAGCACGTTTTGGGTACCATTTCTCAGCCAGCATGGGGCTAGAACAACAACCAATGGAGTTATTCTTGTT
GAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTCCGAGAAGACTGAGGAGATAACTTCC
ACTGAAGGAGACCTGAAGGGGACAGCAGCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCAC
ACATTAGACACAGTCTATGAAAAGCCCACCCATGAAGAGACGGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGA
TCGTACACAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCTGAGTCTGAGCCCATG
CAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACAC
CTTACTCCAACCCCCACCATCTGGGTAAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATAGGGGAA
CCAGGTGTCCAGGCCAATCACATCTACAAGGACTGACAGACAACATCCACCTTGTGAAAAGTAGTCTAAGCACT
CAAGACACCTTACTGATTAAAAAGGGTATGAAAGAGATGTCTCAGACACTACAGGGAGGAAATATGCTAGAGGGA
GACCCACACACTCCAGAAGTTCTGAGAGTGAGGGCCAAGAGAGCAAATCCATCACTTTGCCTGACTCCACACTG
GGTATAATGAGCAGTATGTCTCCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAAGACACC
ACAACAGCAACAACAACCAAGGCAAAAAGTTGCTCCGTATCCACCATGAGCACTACCCCTTCTCGAAGGAGA
CCCAACGGGAGAAGGAGATTACGCCCAACAATTCGCCACCAGGACAAAGCAACCCACCCACAACCTTTTGC
CCATCAGAGACTTTTTCTACTCAACCAACTCAAGCACCTGACATTAAGATTCAAGTCAAGTGGAGAGTTCTCTG

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FIGURE 6123B

GTTCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGGAAATGGAGAAGAATGCAGAAGCCACA
TCCAAGGGAACACCACGGAGAAAACACGGGAAGAGGCCAAACAAACATCGATATACCCCTTCTACAGTGAGCTCA
AGAGCGTCCGGATCCAAGCCCAGCCCTTCTCCAGAAAATAAACATAGAAAACATTGTTACTCCAGTTTCAGAACT
ATACTTTTGCCTAGAACTGTTTCTCTGAAAACCTGAGGGCCCTTATGATTCTTAGATTACATGACAACCACCAGA
AAAATATATTTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAAACCCACATCAGATGGAAAAGAA
ATTAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAAT
GCCATACCAACTTCTCGCTCCTTGGTCTCCACTATGGGAGAAATTAAGGAAGAATCCTCTCCTGTAGGCTTTCCA
GGAACCTCAACCTGGAATCCCTCAAGGACGGCCAGCCTGGGAGGCTACAGACAGGCATACCTGTTACCATTCT
GGGGAAAATCTTACAGACCCTCCCTTCTTAAAGAGCTTGGAGATGTGGATTTCACTTCCGAGTTTTTGTCTCT
TTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTTCTCCACAACCTCTCTCAAGCATAAAAGTGGAGGTG
GCTTCAAGTCAGGCAGAAACCACCACCCTTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAA
ACTAGACCACAGAATCACACCCTACTGCTGCCCGGATGAAGGAGCCAGCATCCTCGTCCCATCCACAATTCTC
ATGTCTTTGGGACAAACACCACCCTAAGCCAGCACTTCCAGTCCAAGAATATCTCAAGCATCTAGAGATTCC
AAGGAAAATGTTTTCTTGAATTATGTGGGGAATCCAGAAACAGAAGCAACCCAGTGAACAATGAAGGAACACAG
CATATGTCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCAGGATGCATTTAACTTGTCTACAAAGCTGGAA
TTGAAAAGCAAGTATTTGGTAGTAGGAGTCTACCAGTGGGCCAGATAGCCAACGCCAGGATGGAAGAGTTCAT
GCTTCTCATCAACTAACCAGAGTCCCTGCCAAACCCATCCTACCAACAGCAACAGTGAGGCTGCCTGAAATGTCC
ACACAAAGCGCTTCCAGATACTTTGTAACCTCCAGTCACCTCGTCACTGGACCAACAAACCGGAAATAACTACA
TATCCTTCTGGGGCTTTGCCAGAGAACAAACAGTTTACAACCTCCAAGATTATCAAGTACAACAATTCTCTCCCA
TTGCACATGTCCAAACCCAGCATTCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGCTACTCCAAA
GTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGTTGGAAAGCCTCCAGTCCAAGAATTCTCATTAT
TCCAATGGAAGACTCCCTTTCTTTACCAACAAGACTCTTTCTTTCCACAGTTGGGAGTCACCCGGAGACCCAG
ATACCCACTTCTCCTGCCCCAGTAATGAGAGAGAGAAAAGTTATTCCAGGTTCTTACAACAGGATACATTCCCAT
AGCACCTTCCATCTGGACTTTGGCCCTCCGGCACCTCGTGTGTGCACACTCCGACAGACCACGGGATCACCCTCA
ACTAATTACAGAATATCCCTATGGTCTCTTCCACCAGAGTTCTATCTCCTTTATAACATCTTCTGTCCAGTCC
TCAGGAAGCTTCCACCAGAGCAGCTCAAAGTTCTTTCAGGAGGACCTCTGCAATCCAAATCTTGGTCTCTTGGG
GAAAAGCCACAAATCCTCACCAAGTCCCACAGCTGTGTCGTCACCGCTGAGACAGACACTGTGTTCCCTGT
GAGGCAACAGGAAAACCAAAGCCTTTTGGTTACTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACC
AGGATACACGGTTTGGGTTCTCAAGAAGGTACCTTAGTGATACGGAAGGTTCAAGTACAAGATCGAGGCCAG
TATATGTGCACCGCCAGCAACCTGCACGGCCTGGACAGGATGGTGGTCTTGTCTTCCGTCACCGTGCAGCAACCT
CAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCATTGCAATGGAGTGTCTGGCCAAA
GGGACCCCGAGCCCCCAAATTTCTGGATCTTCCCTGACAGGAGGGTGTGGCAAACCTGTGTCCCCCGTGGAGGGC
CGCATCACCTGCACGAAAACCGGACCCTTTCCATCAAGGAGGCGTCTTCTCAGACAGAGGCGTCTATAAGTGC
GTGGCCAGCAATGCAGCCGGGGCGGACAGCCTGGCCATCCGCTGCACGTGGCGGCACTGCCCCCGTTATCCAC
CAGGAGAAGCTGGAGAACATCTCGCTGCCCGGGGCTCAGCATTACATTCACTGCACTGCCAAGGCTGCGCCC
CTGCCAGCGTGCCTGGGTGCTCGGGGACGGTACCCAGATCCGCCCTCGCAGTTCTCCACGGGAACCTGTGTT
GTTTTCCCCAACGGGACGCTCTACATCCGCAACCTCGCGCCCAAGGACAGCGGGCGCTATGAGTGCCTGGCCGCC
AACCTGGTAGGCTCCGCGCGCAGGACGGTGCAGCTGAACGTGCAGCGTGCAGCAGCCAACGCGCGCATCACGGGC
ACCTCCCCGCGGAGGACGGACGTGAGTACGGAGGAACCTCAAGCTGGACTGCAGCGCTCGGGGGACCCCTGG
CCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGATGATCGACGCGCTCTTCAAGTTTGTAGCAGAATCAAGGTG
TTTGCCAATGGGACCCTGGTGGTGAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAAT
AAGGTTGGTGATGACTACGTGGTGCTCAAAGTGGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAG
AACGACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGGACTGTGTGGCCACCGGGCTTCCAATCCCGAGATC
TCTGGAGCCTCCAGACGGGAGTCTGGTGAACCTTTCATGCAGTCGGATGACAGCGGTGGACGCACCAAGCGC
TATGTCGTCTTCAACAATGGGACACTCTACTTTAACGAAGTGGGGATGAGGGAGGAAGGAGACTACACCTGCTTT
GCTGAAAATCAGGTGCGGAAGGACGAGATGAGAGTCAGAGTCAAGGTGGTGACAGCGCCCGCCACCATCCGGAAC
AAGACTTACTTGGCGGTTGAGGTGCCCTATGGAGACGTGGTCACTGTAGCCTGTGAGGCCAAAGGAGAACCCATG
CCCAAGGTGACTTGGTGTGCCCCAACCAACAAGGTGATCCCCACCTCCTCTGAGAAGTATCAGATATACCAAGAT

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FIGURE 6123C

GGCACTCTCCTTATTTCAGAAAAGCCAGCGTTCTGACAGCGGCAACTACACCTGCTTGGTCAGGAACAGCGCGGGA
GAGGATAGGAAGACGGTGTGGATTACGTCAACGTCCAGCCACCCAAGATCAACGGTAACCCCAACCCCATCACC
ACTGTGCGGGGAGATAGCAGCCGGGGGCGAGTCGGAAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCGAGG
GTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATACTATGGAAACCGGATCACTGTCCATGGCAAC
GGTTCCCTGGACATCAGGAGTTTGAAGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCAGCAACGAGGGAGGG
GAGGCCAGGTTGATCCTGCAGCTCACTGTCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAG
AAGATCACGGCCATGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGCGGGGACCCGACACCCAGCCTGGTG
TGGGTCTTCCCAATGGCACCAGATCTGCAGAGTGGACAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATG
CTACACATTAGCGGTCTCTCTCGGTGGACGCCGGGGCCTACCGCTGCGTGGCCCCGAATGCCGCTGGCCACACG
GAGAGGCTGGTCTCCCTGAAGGTGGGACTGAAGCCAGAAGCAAACAAGCAGTATCATAACCTGGTCAGCATCATC
AATGGTGAGACCCTGAAGCTCCCCTGCAACCCCTCCCGGGGCTGGGCAGGGACGTTTCTCTGGACGCTCCCCAAT
GGCATGCATCTGGAGGGCCCCAAACCCCTGGGACGCGTTTCTCTTCTGGACAATGGCACCCCTCACGGTTTCGTGAG
GCCTCGGTGTTTGACAGGGGTACCTATGTATGCAGGATGGAGACGGAGTACGGCCCTTCGGTCACCAGCATCCCC
GTGATTGTGATCGCCTATCTCCCCGGATCACCAGCGAGCCCCACCCCGGTCTCTACACCCGGCCCGGGAACACC
GTGAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTG
AAGGCAGGGGTTGAGGCTCGTCTGTATGGAAACAGATTTCTTCAACCCCGAGGATCACTGACCATCCAGCATGCC
ACACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAAAACATTCTCGGCAGTGACTCCAAAACAACCTTACATC
CACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTTTGTAAAGGAAGCCA
GGTTGGGGAATAGGAGCTCTAAATAATGTGTACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGA
TCTTGATCTACAATTGTTGGGAAAAGGAAGCAATGCAGACACGAGAAGGAGGGCTCAGCCTTGCTGAGACACTTT
CTTTTGTTGTTTACATCATGCCAGGGGCTTCATTCAGGGTGTCTGTGCTCTGACTGCAATTTTTCTTTTTTGCAA
ATGCCACTCGACTGCCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCATCAAAAATAAGCCATAGACATGA
ACAACACCTCACTACCCCATGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTTC
CAGATTGACAAGTCATCTTTCAGTTATTTCTCTGTCACTTCAAACTCCAGCTTGCCCAATAAGGATTTAGAAC
CAGAGTGACTGATATATATATATATTTTAATTCAGAGTTACATACATACAGCTACCATTTTATATGAAAAAGAA
AAACATTTCTTCTGGAACTCACTTTTATATAATGTTTATATATATATTTTTTCTTTCAAATCAGACGATGA
GACTAGAAGGAGAAATACTTTCTGTCTTATTAATAATTAATAAATTATTGGTCTTTACAAGACTTGGATACATTAC
AGCAGACATGGAAATATAATTTAAAAAATTTCTCTCAACCTCCTTCAAATTCAGTCACCAGTGTATATTACC
TTCTCCAGGAACCCCTCCAGTGGGGAAGGCTGCGATATTAGATTTCTTGTATGCAAAGTTTTTGTGAAAGCTGT
GCTCAGAGGAGGTGAGAGGAGAGGAAGGAGAAAACTGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCC
GAAAAGCCCAGAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTGGCTGCTTCTTCCCCAGCCATG
AGTCAGTTTGTGCCATGAATAATACACGACCTGTTATTTCCATGACTGCTTTACTGTATTTTTAAGGTCAATAT
ACTGTACATTTGATAATAAAATAATATTCTCCC

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FIGURE 6124

GGCACGAGGGGAGGCCGGGGCGGGGCGGGGCGAGCCGGCGCTGAGCTTGCAGGGCCGCTCCCCCTACCCGCCCCC
TTCGAGTCCCCGGGCTTCGCCCCACCCGGCCCGTGGGGGAGTATCTGTCTGCGCCTTCGCCACGCCCTGCAC
TCCGGGACCGTCCCTGCGCGCTCTGGGCGCACCATGCCCCGCGGGGCTGCGCTGGCGCTGCTGCTCTTCGGCCTG
CTGGGTGTTCTGGTCGCCGCCCGGATGGTGGTTTCGATTTATCCGATGCCCTTCCTGACAATGAAACAAGAAA
CCCACTGCAATCCCCAAGAAACCCAGTGCTGGGGATGACTTTGACTTAGGAGATGCTGTTGTTGATGGAGAAAT
GACGACCCACGACCACCGAACCACCCAAAACCGATGCCAAATCCAAACCCCAACCACCCTAGTTCCTCCGGTAGC
TTTTCAGATGCTGACCTTGCGGATGGCGTTTCAGGTGGAGAAGGAAAAGGAGGCAGTGATGGTGGAGGCAGCCAC
AGGAAAGAAGGGGAAGAGGCCGACGCCCCAGGCGTGATCCCCGGGATTGTGGGGGCTGTGCTGGTCGCCGTGGCT
GGAGCCATCTCTAGCTTCATTGCTTACCAGAAAAAGAGCTATGCTTCAAAGAAAATGCAGAACAAGGGGAGGTG
GACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAATAGAGATTGTC
GGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACCTGCCTG
AGAGCAGAGATGGAGGCCCTTCTGTTACGGCGGATTCTTTGTTTTAATCTTGCGATGTGCTTTGCTTGTTGCTGG
GCGGATGATGTTTACTAACGATGAATTTTACATCCAAAGGGGGATAGGCACCTGGACCCCCATTCTCCAAGGCCC
GGGGGGGCGGTTTCCCATGGGATGTGAAAGGCTGGCCATTATTAAGTCCCTGTAACCTCAAATGTCAACCCACCG
AGGCACCCCCCGTCCCCCAGAATCTTGGCTGTTTACAAATCACGTGTCCATCGAGCACGTCTGAAACCCCTGGT
AGCCCCGACTTCTTTTAAATTAATAAGGTAAGCCCTTCAATTTGTTTCTTCAATATTTCTTTTCAATTTGTAGGG
ATATTTGTTTTTTCATATCAGACTAATAAAAAAGAAATTAGAAACCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6125

MARGAALALLLFGLLGVLVAAPDGGFDLSDALPDNENKKPTAIPKKPSAGDDFDLGDAVVDGENDDPRPPNPPKP
MPNPNPNHPSSSGSFSDADLADGVSGGEGKGGSDGGGSHRKEGEEADAPGVIPGIVGAVVVAVAGAISSFIAYQK
KKLCFKENAEQGEVDMESHNRNANAEPVQRTLLEK

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FIGURE 6126

CGGGGCGGGCGGGCGGGCGGTGAAGTCACTGCTGCTCTGGGTTTCGGGTTGGCGACTGAAGGCGGTACCGGCCTCCC
GGAACAGCCCCGGGGGAGGGCTTAGGTGCAGAAAGGCGAGGCTGGCCGCGGCCGGTTTGGTCTGGGGACCACGGGCT
GGAGCAGGTGGAAATTTAAATTTGTTTACAGTCAACACTGTTTCCAGCCATGGGTTTGTCTCCATCTGCTCCTGC
TGTTGCAGTTTCAGGCCTCAAATGCTTCAGCGTCCCCACCTTCAGGATGCCCCGATGCATGAAGGGAAAATGAAAGG
CTGTCCAGTGAATACAGAGCCATCTGGCCCAACCTGTGAGAAGAAAACATACTCTGTGCCTGCCACCAGGAACG
CGCCTATGAGTACGTGGAGTGTCCCATTAGGGGCACTGCGGCTGAGAATAAGGAGAACCTAGATCCTTCAAATCT
GATGCCACCACCAAATCAAACACCAGCTCCAGATCAGCCATTTGCATTGTCTACTGTCTCAGAGAAGAGTCATCCAT
TCCGAGAGCAGATTTCAGAGAAAAAGTGGGTTTACCCTTCTGAGCAGATGTTCTGGAATGCAATGTTAAAGAAAGG
GTGGAAGTGGGAAGGATGAGGATATCAGTCAGAAGGATATGTATAATATCATTAGAATTCACAATCAGAATAACGA
GCAGGCTTGGGAAGGAGATTTTGAAGTGGGAAGCCCTTCATGCTGCAGAGTGTCTTGTGGTCCATCATTGATCCG
GTTTGGAGGGAAAGCAAAAGAGTATTCACCAAGGGCACGAATTCGTTTCTGGATGGGGTATGAGTTGCCTTTTGA
TAGGCACGATTGGATCATAAACCGTTGCGGGACAGAAGTTAGATATGTGATTGATTATTATGATGGTGGTGAAGT
CAACAAGGACTACCAGTTCACCATCCTGGACGTCCGTCCTGCCTTAGATTCACTTTCGGCAGTATGGGACAGAAT
GAAAGTCGCTTGGTGGCGTTGGACCTCGTTAAAGCACTGTTTCAGATGGAAAAATATAAACTATTTTTTTCTGAGC
GATACATTAACTATTTTCCCCAGAAAAAAAAAAAAA

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FIGURE 6127

MGLSPSAPAVAVQASNASASPPSGCPMHEGKMGCPVNTEPSGPTCEKKTYSVPAHQERAYEYVECPIRGTAAEN
KENLDPSNLMPPPNOTPAPDQPFALSTVREESSIPRADSEKKWVYPSEQMFWNAMLKKGWKWKDEDISQKDMYNI
IRIHNQNNQAWKEILKWEALHAAECPCGPSLIRFGGKAKEYSPRARIRSWMGYELPFDRHDWIINRCGTEVRYV
IDYYDGGEVNKDYQFTILDVRPALDSL SAVWDRMKVAWWRWTS

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FIGURE 6128

GAGATCTGATGGTTTTATAAAGAGGAGTTCCCTGCACAAGCTCCCTCTCTTGCCTGCCACCATGTAAGAAGTCC
CTTTGGTCTTCCCTTTGTCTTCTGCCGTGATTGTGAGGCCTCCCCAGCCATGTGGAAC TTATAAAATAATAAGATG
GCTGATCCTGCAAAGAGGCGCGGTGACATCAACAGTGACTCAGTCTCTATGATGGTATTAGTAACTGGCAGCTGA
CTCTCCTATTTATCATCAAGTTAATGTTCCAAATAAGACTTTCAAGTCTGAGAAAAATGACAAATCCCTTCCAGGC
ATGGTTCAAGTTAAAGCTGAAACTGTGTCTTCGTTTCAGCTCAAGAGAGGTTTTGATTGTGTCTGTTGGCTTTTCCT
TGTGTATTGGTTGAGGAAGTGTGCCTTGGAGGGGCGGGGAGTCTTGAGAATGGGTCAACTGATGGAGGGGGAGTG
GAAGACATTGGTTGCCCAAGAAAATATGTCAACATCTGTCCATCACTGCAACTCCGGCCTGATTATCATTTTTTC
TGCTTCTGTAAGCACCAATGAGACAATGCCACTGAACCACATTCTTTGTTGCCTGCAGTATTTCCCACCACTGCG
CCACCTCTGTATATGCTAATGAGGAAGCCCAGGGTTTTGTGTGGCTGAAAAGCCTTTTCAGGCACAATCAGTGGGTC
AACAATCTCAACTCTGTACAGCGGCTCAGCCTGCTCTGTGAGAGGCTCCTCTTTTCGGAGGGGTCCTTCCTCACAC
CTTTTCTGTGAGTGCGTCTGTGCTTAAGGAAGGGCAATTAACCATCTGGCTGCTTGTCCCCTGGAGAAATTGACA
GAACATCAAACAGAATAAACTCATACCTTGAAAAGTGCCAAGTGGCACATGACTGTCCGGTTCACTGTGGGGA

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FIGURE 6129

MFQIRLSSLRKMTNPFQAWFKLKLKLCIRFSSREVLIVSWLFLVYWLRNCALEGRGVLRMGQLMEGEWKTLVAQE
NMSTSVHHCNSGLIIIFSASVSTNETMPLNHILCCLQYFPPLRHL

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FIGURE 6130

CGGACATCTCCCTGGGAGTCGCGCAGAGTGGAGTCAAAGGCAACCAGTGCTCGCTGCGGTCTCTGGGGATCGGGA
CCGCGGCGGCGGCCCGCGAGCGGGATGTTCCGGGGCTTGAGCAGTTGGTTGGGCTTGACAGCAGCCGGTGGCAGGC
GGTGGGCAGCCCAATGGAGATGCTCCACCCGAGCAGCCGTCCGAGACGGTGGCTGAGTCTGCGGAGGAGGAGCTG
CAGCAAGCGGGAGACCAGGAGCTCCTCCACCAGGCCAAAGACTTCGGCAACTATTTATTTAACTTTGCATCTGCT
GCCACAAAAAGATAACTGAATCAGTTGCTGAAACAGCACAAACAATAAAGAAATCCGTAGAAGAAGGAAAAATA
GATGGCATCATTGACAAGACAATTATAGGAGATTTTCAGAAGGAACAGAAAAAATTTGTTGAAGAGCAACATACA
AAGAAGTCAGAAGCAGCTGTGCCCCCATGGGTTGACACTAACGATGAAGAAACAATTCAACAACAAATTTTGGCC
TTATCAGCTGACAAGAGGAATTTCTTCGTGACCCCTCCGGCTGGCGTGCAATTTAATTTGCACTTTGATCAGATG
TACCCCGTGGCCCTGGTCATGCTCCAGGAGGATGAGCTGCTAAGCAAGATGAGATTTGCCCTCGTTCCTAAACTT
GTGAAGGAAGAAGTGTTCTGGAGGAACTACTTTTACCGCTCTCCCTGATTAAGCAGTCAGCCAGCTCACGGCC
CTGGCTGCCCCAACAGCAGGCCCGCAGGGAAGGAGGAGAAGAGCAATGGCAGAGAGCAAGATTTGCCGCTGGCAGAG
GCAGTACGGCCCCAAACGCCACCCGTTGTAATCAAATCTCAGCTTAAACTCAAGAGGATGAGGAAGAAATTTCT
ACTAGCCCAGGTGTTTCTGAGTTTGTGTCAGTGATGCCTTCGATGCCTGTAACCTAAATCAGGAAGATCTAAGGAAA
GAAATGGAGCAACTAGTGCTTGACAAAAAGCAAGAGGAGACAGCCGTACTGGAAGAGGATTCTGCAGATTGGGAA
AAAGAACTGCAGCAGGAACCTCAAGAATATGAAGTGGTGACAGAATCTGAAAAACGAGATGAAACTGGGATAAG
GAAATAGAGAAAATGCTTCAAGAGGAAAAATTAGCTGTTCCTGAAATAGAAGAATAATCCTTAACAGTCTGCAAC
TGACATTAAATTCTAGATGTTGACAATTACTGAATCAGAAGGCATGAAAGAGTATAATTTTATGAAATTCAAAT
TATTCTTTTTTCAAGTTGAACTTGCCTCTTCTACTTTAAAAAAGTATATAGAACAGTTACTTCTAATAATCAGA
AAGAGATGTTTTATAGAACATTTCTTTAATATAAAGTTAGAGATGTCTTCATAGGCAGTATGGCTATCTTTGCCA
CAGAAACATAAGTAAAAATTTAGAGTTCTGTTTTCCATGAGGTCAAAAATATAATTTATTCTCAGTCATGGTTT
TCTAAATATCTGTACTCCACATTCCATTTTAATTGATATGAGGGTGTTAAAGTACCTACTTAATGGGTTGATTAC
TATCAAAATGACCAAATTATACCAAAGAACTTAAGAGGAAGCACTTTCAGAACTATTCACTTGCCAGGTATTTTC
TAAATTTCCACCTGAAAGCCAAAAGATAAAATAAATAAGTTGATTTTAATGATATAAGCATCACACAATTTTACA
TTAAGAAATACTGTGCAGGCCATGCGTGGTGGCTCAGGCCTGTAATCCAGCACTTTGGGAGGCCGAGGTGGGCA
GATCACCGGAGGTCAGGAGTTCGAGACCAGCCTTGCCAACATAGTGAACCCTGTCTCTACTAAAAATACAAAA
TTAGCCGGGCATGGTGGCAGGCACCTGTAATCCCAGCTACTAGGGAGGCTTTTGAACCCAGGAGGCAGAGGTTGC
AGCGAGCTGAGATCGCGCCACTGCACTCCAGCCTGGGTGATAGAGTGAGATTTCAGTCTC

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FIGURE 6131

ATGGAGAAAAACAAAACAAGAAGAAAGTGGAGGAGGTGCTAGAAGAGGAGGAACAGGAATATGTGGTGGAAAAA
GTTCTCTACCGTCGATTGCCCCGCCCCCATATCCCTCCTTCTGCCAACTTTATCACTTAAGACAGACTGCCTG
GGTCACCCTGTTTATGACAATAGAAGAATAAGGAAAGAACTCTTCCCCTGCTCAAATCCTCCAATGTACCTGC
CGTACCCACGGGCATGACAGACGGCACTGCTCGTTCCCATGCTCTGCTGCAAAGGTGGGCCTGGCAGCCTTGTGT
GGGCACCATGACCCACCTCACACCTGGCGTCACCTGAGTGGGAGAAAGGAGAGCCAACCCAAGGAGAAGAAAGAA
GGGTCGGAAAAGCCCCGAGGCTTTGTTTCAGGTTTGGGAAGCCGGAACCAGATTATTGGAGCTACAGACCTCCAGTG
GGAGAGCTCATGTTTCCTGATGAAAGGGAAAAATTTTGATGAGGCTGACCTCGTCCCTGCCAAGGAAGTCAATGTC
AAATGCCACGGGTTGTCATATCCTTCTATGAGGAAAGGCTGACGTGGCATTCTACCCCAAAGAGGATGATGAC
AAGAATTAA

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FIGURE 6132

TGTTTGAAGATACTGTGGAGGAGCGTGTCATCAATGAAGAATATAAAAATCTGGAAGAAGAATACACCGTTTCTAT
ATGACCTGGTTATGACCCATGCTCTTCAGTGGCCAGTCTTACCGTTTCAGTGGCTTCCTGAAGTGACTAAACCTG
AAGGAAAAGATTATGCCCTTCATTGGCTAGTGCTGGGGACTCATACGTCTGATGAGCAGAATCATCTGGTGGTTG
CTCGAGTACATATTCCCAATGATGATGCACAGTTTGATGCTTCCCATTTGTGACAGTGACAAGGGTGAATTTGGTG
GCTTTGGTTCTGTAACAGGAAAAATTGAATGTGAAATTAAAAATCAATCACGAAGGAGAAGTAAACCGTGCTCGTT
ACATGCCGCAGAATCCTCACATCATTGCTACAAAAACACCATCTTCTGATGTGTTGGTTTTTACTATACAAAAC
ACCCTGCTAAACCAGACCCCAAGTGGAGAAATGTAATCCTGATCTCAGATTAAAGAGGTCACCAGAAGGAAGGCTATG
GTCTCTCCTGGAATTCAAATTTGAGTGGACATCTCCTAAGTGATCTGATGACCATACTGTTTGTCTGTGGGATA
TAAACGCAGGACCAAAAGAAGGCAAAATTGTGGATGCTAAAGCCATCTTTACTGGCCACTCAGCTGTTGTAGAGG
ATGTGGCCTGGCACCTGCTGCACGAGTCATTGTTTGGATCTGTTGCTGATGATCAGAACTTATGATATGGGACA
CCAGGTCCAATACCACCTCCAAGCCGAGTCACTTGGTGGATGCGCACACTGCCGAAGTCAACTGCCTCTCATTCA
ATCCCTACAGCGAATTTATTCTAGCCACCGGTCTGCGGATAAGACCGTACCTTTATGGGATCTGCGTAACTTAA
ATTAAGTCTCCATACCTTCGAATCTCATAAAGATGAAATTTTCCAGGTCCACTGGTCTCCACATAATGAACTAT
TCTGGCTTCAAGTGGTACTGACCGCCGCTGAATGTGTGGGATTTAAGTAAAATTGGGGAAGAACAATCAGCAGA
AGATGCAGAAGATGGGCCTCCAGAACTCCTGTTTATTATGAGGACACACTGCTAAGATTTTCAATTTTAGCTG
GAACCCCAATGAGCCTTGGGTCATTGCTCAGTGTCTGAGGATAACATCATGCAGATATGGCAAATGGCTGAAAA
TATTTACAATGATGAAGAGTCAGATGTCACGACATCCGAAGTGGAGGACAAAGGATCTTAAACCCAAAGTACGAG
AAATGTTTCTGTTGAATGTAATGCTACATGAATGCTTGATTTATCAAGCGCCAAAAGGCATTGTATAGTAGGAA
ATGTAAGTGGGGTGGCTTATGGCTTCTTTATCCTCTGATTCTAGCACTTTCAAGTGAGCTGTTGCGTACTGTATC
ATATTGTAGCTATTAGGGAAGAGAAGAATGTGCTTAAGAAAGAACATCACCATTGATTTTAAATACAAGTAGCA
GGGTATTGCCTTTGATTCAACTGTTTAAAGTCCTCATTTTCTCAAATAAGTGCTTGCTGTTCCCAATATGCAA
GAATAACTTTTACACTTTTTCCTTCCAACACTTCTTGATTGGCTTTGCAGAAATAAAGTTTTAAAT

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FIGURE 6133

MTHALQWPSLTVQWLPEVTKPEGKDYALHWLVLGTHTSDEQNHLVVARVHIPNDDAQFDASHCDSDKGEFGGFGS
VTGKIECEIKINHEGEVNRARYMPQNPHEIATKTPSSDVLVFDYTKHPAKPDPSGECNPDLRLRGHQKEGYGLSW
NSNLSGHLLSASDDHTVCLWDINAGPKEGKIVDAKAIFTGHSVVEDVAWHLLHESLFGSVADDQKLMIWDTRSN
TTSKPSHLVDAHTAEVNCLSFNPYSEFILATGLRIRP

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FIGURE 6134

ATCACTGGTCTCGCGTGCGCGTGACCAGGCCCGGTTCCGGTGCCAGGACCTTTCCGAAGCGTCGAGTGGCCTAA
CGGTACAGCTGTGCGCCATCGGAGAGGCAGGACTACTGCGAGCAGTTTTACCGCGACCTCCGGAGGCCGGCGTG
ACAGGCTCTGTCACTAAATAGGAACCGAATATTGTATCTGACGCATCCTGTAATACTGAAGAGCAACTGAAGAC
AGTTGATGATGTCTTTATTCATTGCCAGGTTATATATGATGCTCTGCAAAACCTGGATAAGAAGATTGATGTGAT
TCGTAGAAAGGTTTCAAAAATCCAACGTTTCCATGCGAGATCCCTGTGGACAAATCATAAGCGATATGGATATAA
AAAGCATTCTTACCGGCTTGTTAAAAAGCTTAACTCCAGAAAATGAAGAAAAATGAGGTTTACGAGACATTCTC
CTACCCTGAAAGTTACAGCCCCACTTTACCAGTGTCAAGGCGTGAGAATAATTCCCCGAGCAACCTTCCAAGGCC
ATCCTTTTGCATGGAAGAATACCAGCGAGCTGAGCTGGAGGAGGACCCGATCCTCAGCCGCACTCCGAGTCCAGT
GCATCCCTCAGATTTCTCTGAGCATAATTGTGAGCCGTATTATGCATCTGATGGTGCAACGTATGGTCTTCTTTC
AGGGCTCTGCCTTGGCAACCCTCGGGCTGACAGCATCCACAACACTTACTCAACTGACCATGCTTCTGCAGCACC
ACCTTCAGTTACAAGGTCACAGTTGAAAATGACGGTTACATAGAGGAAGGAAGCATCACTAAGCACCTTCAAC
CTGGTCGGTGGAAGCAGTGGTCTATTTCTAAAACAAACAGATCCTCTTGCAATTATGCCCTCTTGTGACCTCTT
CAGAAGCCATGAAATTGACGGGAAGGCTCTGCTCCTACTCACGAGTGACGTGTTGCTGAAGCACTTGGGGGTGAA
GCTGGGAACGGCTGTGAAGCTATGCTACTACATTGACCGACTTAAACAAGGAAAAATGCTTTGAAAAATGAAGAAAA
TCCTTGTGCAAATTTAGATTGGGCCAATCTTAGAGGCACCAATGCCCTTCTTAGTGTGGAATCATTTTTCTGCCC
TTTAGTCGTTTTTGTGTTGTAGAAAGTATCTCTCAAAATATATTATAGCTAGAATTGTAGAACTATGTTATAGTC
CAGTCTACTTCTTTAAAAACCATTTAACTGCTAGATAGTATTAGAATAGTCCAATAGAAAAATTCATTCTTTATA
GGTCTTTAAAAATTACTTTTATTATATTGTTTACAAATATATTTTCATGCAAGAAACAGAAAAAACCCT
TTGATTCTGGTTCATCTCGATACAGAGAACCAAAACAGCTAAGAGAGGTATTATCAGGGTTGACAACCTCCTATGA
TTGAATCTATGGGAATTATTCCTCAGAAGAGAATTTAAAGGTGTACCCATATATATCTCTTCTGGAGTATTTTA
TCTGTCTGATGTTGCAGTATTCTACAAGTTTCCAGAAAGAGAATAGCCATATAAATTATTTCCCTTCTGCTATT
ATTTCTCTATATGTTTTATTATTAGATTTAGAGTAAAAATAAGCATATAAACTTTTATTATGTGCTCTTAAC
AGTTTTAAGATAAACTATAGGATAGATAGAATGGTTATTTTATGCAAGAAATATTGTACCGCAAGGGTGGTTGG
ATGAAGTCTGACTACTTTTTTTCAAACAACTATTATATTTAAACTGTCATATTTTGGCTAAGTTTGGACCTATA
ACTACACTTTCATTGTTTGCATCTCTCTATGAAGATACGTCTGTCCAACTTTTAAAAGGCATAACTGTATTTTA
TGTGTTATTCTTTATATAGATAGTATTTTATATTTTATTCTCACCAGAGTATTCACACAATCTTTTTAAAAAA
AATTTGAAATGGCATTTTGTATTGCCACAGAGGTAGGATGAGCCATATATTAGTGAATGTTTTATTTTGTAAAA
TATAAATGGATTATTTGCCATCATTAGTACCTCTCAACTTACTTTTTAGAGGACAAGAAACAATCTGTAGATTGG
TTCCATACAGGGAAGTTCTCCGTCTATGCAATGTTTCTAATTAATTTGCTTAATTTCTGAGCCATTAATCCTGC
TACACTTTGAATGATACATTAATTCAGACTAATCTTTGGGGGCTTTATTTTGTAAAGTTAGAAGTTTCAAGGGAAA
CATGTTCAACACTATTATTTTGTATAAATTTATAACTTTGTTATTACATTGTGTAACAAATATAAGGTTTACGA
GCTATGAGAATTGGTGCTATCACCATTAGCTATTTGCTGTAATGTCAAGAAATGTTACCAGATGCAAGAAATGT
ACCTTTTCTTTTTAGAAAGCCAAATGTACTTTAGACATGAATGCAACTATTTAAAGAATAGCTTCATCAATGTTA
TTCCTTACATGTACATAAGATTCTTACTTAACTTGGTCTTCTTTCAAATTGTTTGTATGAAGATGCTGTACCCAC
TTGAACAGTCTCAGGTGTTTACATAAATACTATGTTTTACAGTTTTCATATTTTAAATATTAATAAAGTTAA
TCACAATAGT

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FIGURE 6135

MKKNEVYETFSYPESYSPTLPVSRRENNSPSNLPRPSFCMEEYQRAELEEDPILSRTPSPVHPSDFSEHNCOPYY
ASDGATYGSSSGLCLGNPRADSIHNTYSTDHASAAPPSVTRSPVENDGYIEEGSITKHPSTWSVEAVVFLKQTD
PLALCPLVDLFRSHEIDGKALLLLTSDVLLKHLGVKLGTAVKLCYYIDRLKQGKCFEN

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FIGURE 6136

ATGAGCGAGTCGATCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGATGGCACTGAGAAGCGGAGC
TGGGGCAGGCCGCGCAAGCAGCCTCTGGTGAGTCCCAGGACAGCGCTGGGAGGGAGTCAGAAGGAGCCAGTGAA
GTGCCAAAACCTAAGAGACCTCAGGGCCGACCAATGGAAGGAAAAACAAGGACGCTGCCAAGACCTGGAAAACC
ACCACAACCTCCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCACAG
GAGTCCTCGGAGGAGGAGCAATTGA

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FIGURE 6137

MSESISKSSQPLASKQEKDGTETKRSWGRPRKQPLVSPRTALGGSQKEPSEVPKPKRPQGRPNGRKNKDAAKTWKT
TTTPGRKPRGRPKKLEKEEEEGLSQESSEEEQ

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FIGURE 6138

ACTGAGGCGTGGCGTCTGCTGGGGCACCTGAAGGAGACTTGGGGGCACCCGCGTCGTGCCTCCTGGGTTGTGAGG
AGTCGCCGCTGCCGCCACTGCCTGTGCTTCATGAGGAAGATGCTCGCCGCCGTCTCCCGCGTGCIGICTGGCGCT
TCTCAGAAGCCGGCAAGCAGAGTGCTGGTAGCATCCCGTAATTTTGCAAATGATGCTACATTTGAAATTAAGAAA
TGTGACCTTCACCGGCTGGAAGAAGGCCCTCCTGTCAACAGTGCTCACCAGGGAGGATGGGCTCAAATACTAC
AGGATGATGCAGACTGTACGCCGAATGGAGTTGAAAGCAGATCAGCTGTATAAACAGAAAATTATTCGTGGTTTC
TGTCACTTGTGTGATGGTCAGGAAGCTTGTGTGTGGGCCTGGAGGCCGGCATCAACCCACAGACCATCTCATC
ACAGCCTACCGGGCTCACGGCTTTACTTTACCCGGGGCCTTTCCGTCCGAGAAATTCTCGCAGAGCTTACAGGA
CGAAAAGGAGGTTGTGCTAAAGGGAAAGGAGGATCGATGCACATGTATGCCAAGAACTTCTACGGGGGCAATGGC
ATCGTGGGAGCGCAGGTGCCCCCTGGGCGCTGGGATTGCTCTAGCCTGTAAGTATAATGGAAAAGATGAGGTCTGC
CTGACTTTATATGGCGATGGTGCTGCTAACCAGGGCCAGATATTGGAAGCTTACAACATGGCAGCTTTGTGGAAA
TTACCTTGTATTTTCATCTGTGAGAATAATCGCTATGGAATGGGAACGTCTGTTGAGAGAGCGGCAGCCAGCACT
GATTACTACAAGAGAGGCGATTTTCATTCTGGGCTGAGAGTGGATGGAATGGATATCCTGTGCGTCCGAGAGGCA
ACAAGGTTTGTGCTGCCTATTGTAGATCTGGGAAGGGGCCATCCTGATGGAGCTGCAGACTTACCGTTACCAC
GGACACAGTATGAGTGACCCTGGAGTCAGTTACCGTACACGAGAAGAAATTCAGGAAGTAAGAAGTAAGAGTGAC
CCTATTATGCTTCTCAAGGACAGGATGGTGAACAGCAATCTTGCCAGTGTGGAAGAACTAAAGGAAATTGATGTG
GAAGTGAGGAAGGAGATTGAGGATGCTGCCCAGTTTGCCACGGCCGATCCTGAGCCACCTTTGGAAGAGCTGGGC
TACCACATCTACTCCAGCGACCCACCTTTTGAAGTTGTTGGTGCCAATCAGTGGATCAAGTTTAAGTCAGTCAGT
TAAGGGGAGGAGAAGGAGAGGTTATACCTTCAGGGGGCTACCAGACAGTGTCTCAACTTGGTTAAGGAGGAAGA
AAACCCAGTCAATGAAATTCAATGAAATTCTTGAAACTTCCATTAAGTGTGTAGATTGAGCAGGTAGTAATTGC
ATGCAGTTTGTACATTAGTGCATTAAAAGATGAATTATTGAGTGCTT

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FIGURE 6139

MRKMLAAVSRVLSGASQKPASRVLVASRNFANDATFEIKKCDLHRLEEGPPVTTVLTREDGLKYYRMMQTVRRME
LKADQLYKQKIIRGFCHLCDGQEACCVGLEAGINPTDHLITAYRAHGFTFTRGLSVREILAELTGRKGGCAKGKG
GSMHMYAKNFYGGNGIVGAQVPLGAGIALACKYNGKDEVCLTYGDGAANQGQIFEAYNMAALWKLPCIFICENN
RYGMGTSVERAAASTDYYKRGDFIPGLRVDGMDILCVREATRFAAAYCRSGKGPILMELQTYRYHGHSMSDPGVS
YRTREEIQEVRKSDPIMLLKDRMVNSNLASVEELKEIDVEVRKEIEDAAQFATADPEPPLEELGYHIYSSDPPF
EVRGANQWIKFKSVS

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FIGURE 6140

GGGCGCAGCACACTCCCAGCCGGCCGCAGCCTGACACGCCGCGCGGCCCCCAGTCTCCCGCGGCTGCTCCCCCA
GGCATGGCACAGGGCCTCGCCTCACTATGGCAGCAGCACGGCACAGCACGCTCGACTTCATGCTCGGCGCCAAAG
CTGATGGTGAGACCATTCTAAAAGGCCTCCAGTCCATTTTCCAGGAGCAGGGGATGGCGGAGTCGGTGACACCT
GGCAGGACCATGGCTATTTAGCAACCTACACAAACAAGAACGGCAGCTTTGCCAATTTGAGAATTTACCCACATG
GATTGGTGTTGCTGGACCTTCAGAGTTATGATGGTGATGCGCAAGGCAAGAAGAGATCGACAGTATTTTGAACA
AAGTAGAGGAAAGAATGAAAGAATTGAGTCAGGACAGTACTGGGCGGGTGAAACGATTACCACCCATAGTGCGAG
GAGGAGCCATCGACAGATACTGGCCACCGCCGACGGGCGCCTGGTTGAATATGACATAGATGAAGTGGTATATG
ACGAAGATTACCTTATCAAAATATAAAAATTCTACACTCGAAGCAGTTTGGAAATATTCTCATCCTTAGTGGGG
ATGTTAATTTGGCAGAGAGTGATTGGCATATACCCGGGCCATCATGGGCAGTGGCAAAGAAGATTACACTGGCA
AAGATGTACTCATTCTGGGAGGTGGAGACGGAGGCATATTGTGTGAAATAGTCAAACTAAAACCAAAGATGGTCA
CTATGGTAGAGATTGACCAATGGTGATTGATGGGTGTAAGAAATACATGCGAAAAACGTGTGGCGATGTCTTAG
ACAATCTTAAAGGAGACTGCTATCAGGTTCTAATAGAAGACTGTATCCCGGTACTGAAGAGGTACGCCAAAGAAG
GGAGAGAATTTGATTATGTGATTAATGATTTGACAGCTGTTCCAATCTCCACGTCTCCAGAAGAAGATTCCACAT
GGGAGTTTCTCAGACTGATTCTTGACCTCTCAATGAAAGTGTGAAACAGGATGGGAAATATTTTACACAGGGGA
ACTGTGTCAATCTGACAGAAGCACTGTCGCTCTATGAAGAACAGCTGGGGCGCCTGTATTGTCTGTGGAATTTT
CAAAGGAGATCGTCTGTGTCCCTTCATACTTGGAATTGTGGGTATTTTACACTGTTTGAAGAAAGCTAAACCTT
GAAGATCAGTAGCCCCTAATCACATGTGCTGCAAATAGCCTTCCTGACCTCCATATGCTGTACATGACATCAAAA
TGAGTCAGGCAATTGATTGTGAATTCCTTAAAGTTTTCTTTTTTTAATAATTATTTTAAATTTAAAAAAGCAAA
TGGAATAATGTATATTTTGATGAGCTTAGGGTGTTTTTTTTTTTGAAGTCAGCTGAAGGATGGTTAGACAGCACAG
CGAAGACTGCTAAATGCACTGACCCCCCATTAGAATGTGATTTTGTTCCTTTTATTCTCTGTGGGCTTTT
GTTTTGTGTTTTGTTTTGGTAGATCTTCAATTTGGATATTTGGAGGAGTGAACATCGTTGTTTTGCTGGAGGGAA
GATCTTGATGGTGTTTCTTTCCCCAAAATTGACTTAGATATTAAAATTTGGTGCTTATAAGAGAGAGTTAAAAA
AAAATAGGATTGCTTCAATTAAAATTACAAAAGAGACAAAAA

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FIGURE 6141

MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQS
YDGAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVVYDEDESPYQNI
KILHSKQFGNILILSGDVNLAESDLAYTRAIMSGKEDYTGKDVILGGGDGGILCEIVKLKPKMVTMVEIDQMV
IDGCKKYMRTCTGVDLNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPPEEDSTWEFLRLILD
LSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP

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FIGURE 6142

GTCAGCCAGTCAGTCCGCCAGTCCGCCAGCCAGTACCTCTCTCTCCTCGGCCCTCGTAAGCTGTCCGCGGTCTG
TTTGGCCCCGAACGGCGGCGGAGGCGCTGATCATGGCGACATTTCATCTCGGTGCAGCTGAAAAAGACCTCAGAGGT
GGACCTGGCCAAGCCGCTGGTGAAGTTCATCCAGCAGACTTACCCAAGCGGCGGGGAAGAGCAGGCCAGTACTG
CCGCGCGGCGGAGGAGCTCAGCAAGCTGCGCCGCGCCGAGTCCGCTCGTCCGCTGGACAAGCAGAGGGCGCGCT
CGAGACGCTCCTGAGATATTATGATCAGATTTGTTCTATTGAACCCAAATTCCCATTTTTCTGAAAATCAGATCTG
CTTGACATTTACCTGGAAGGATGCTTTTCGATAAAGGTTCACTTTTTTGGAGGCTCTGTAAAATGGCTCTTGCAAG
CTTAGGATATGAAAAGAGCTGTGTGTTGTTCAATTGTGCAGCCTTAGCTAGCCAAATTGCAGCAGAACAGAACCT
GGATAATGATGAAGGATTGAAAATCGCTGCTAAACATTACCAGTTTGCTAGTGGTGCCTTTTTTACATATTAAAGA
GACGGTTTTATCTGCCTTAAGTCGAGAGCCGACCGTGGACATATCTCCAGATACTGTTGGGACCCTCAGTCTTAT
TATGCTGGCACAGGCTCAAGAAGTATTTTTTTTTAAAGCCACAAGAGATAAAATGAAAGATGCCATCATAGCTAA
ATTGGCTAATCAGGCTGCAGATTATTTTGGTGATGCTTTCAAACAGTGTCAATACAAAGATACTCTCCCCAAGGA
GGTGTTCCTGTCTTGCTGCAAAGCACTGTATCATGCAGGCCAATGCTGAGTACCATCAGTCTATCCTGGCAAA
ACAGCAGAAGAAATTTGGAGAAGAAATTGCAAGGTTACAGCATGCAGCAGAACTGATTAAAACAGTGGCATCTCG
CTATGATGAATATGTTAATGTGAAGGATTTTTCTGACAAAATCAATCGTGCCCTTGCTGCAGCAAAGAAGGATAA
TGACTTCATTTATCATGATCGAGTTCAGACCTTAAAGATCTAGATCCTATTGGCAAAGCCACACTTGTGAAATC
TACCCCGTCAATGTACCCATCAGTCAGAAATTTACTGATCTGTTTGAGAAGATGGTTCCCGTGTCTAGTACAGCA
GTCTTTGGCTGCCATAATCAGAGGAAAGCCGATTTGGTTAACAGATCAATTGCTCAGATGAGAGAAGCCACCAC
TTTGGCAAATGGGGTGTAGCTTCCCTTAATCTTCCAGCAGCAATTGAAGATGTGTCTGGAGACACTGTACCTCA
GTCTATATTGACTAAATCCAGATCTGTGATTGAACAGGGAGGCATCCAGACTGTTGATCAGTTGATTAAAGAACT
GCCTGAATTACTGCAACGAAATAGAGAAATCCTAGATGAGTCATTAAGGTTGTTGGATGAAGAAGAAGCAACCGA
TAATGATTTAAGAGCAAAATTTAAGGAACGTTGGCAAAGGACACCATCCAATGAACTGTATAAGCCTTTAAGAGC
AGAGGGAACCAACTTCAGAACAGTTTTAGATAAAGCTGTGCAGGCAGATGGACAAGTGAAAGATGTTACCAGTC
TCATCGTGACACCATCGTGCTTTTGTGTAAGCCAGAGCCTGAGCTGAATGCTGCCATCCCTTCTGCTAATCCAGC
AAAGACCATGCAGGGCAGTGAGGTTGTAAATGTCTTAAATCCTTATTGTCAAATCTTGATGAAGTAAAGAAGGA
AAGAGAGGGTCTGGAGAATGACTTGAAATCTGTGAATTTTGACATGACAAGCAAGTTTTTGACAGCCCTGGCTCA
AGATGGTGTGATAAATGAAGAAGCTCTTCTGTTACTGAACTAGATCGAGTCTATGGAGGCTTACAACATAAAGT
CCAAGATCTCTAAAGAAACAGGAGGGACTTCTTAAAAATATTTCAGGTCTCACATCAGGAATTTTCAAAAATGAA
ACAATCTAATAATGAAGCTAATTAAGAGAAGAAGTTTTGAAGAATTTAGCTACTGCATATGACAACCTTGTGTA
ACTTGTAGCTAATTTGAAGGAAGGCACAAAGTTTTACAATGAGTTGACTGAAATCCTGGTCAGGTTCCAGAACAA
ATGCAGTGATATAGTTTTTGCACGGAAGACAGAAAGAGATGAACCTCTTAAAGGACTTGCAACAAAGCATTGCCAG
AGAACCTAGTGCTCGTACAATTCCTACACCTGCGTATCAGTCCTCACCAGCAGGAGGACATGCACCACTCCTCCA
ACTCCAGCGCCAAGAACCATGCCGCTACTAAGCCCCAGCCCCAGCCAGGCXTCCACCACCTGTGTTTCCAGCA
AATCGAGCTCCTTCTGCTACTGCTCCATCTCCAGTGGGGGCTGGGACTGCTGCGCCAGTCCATCACAAACGCCT
GGCTCAGCTCCTCCTCCACAGGCGCAGGGACCACCTATTXCCCCCTATCCAGGATATCCTGGGTATTGCCAAAT
GCCCATGCCCATGGGCTATAATCCTTATGCGTATGGCCAGTATAATATGCCATATCCACCAGTGTATCACCAGAG
TCCTGGACAGGCTCCATACCCGGGACCCAGCAGCCTTCATACCCCTTCCCTCAGCCCCCACAGCAGTCTTACTA
TCCACAGCAGTAATATGTCTGCTCAGCAGCTCAGCTGATTAGATCAGAGGGAAAGAAATACCAACCCTGCAATA
AGTGTAATAAATCTACGCTCTGGTTAATGTAATGTACTCTCCTGGACTGAATGCAGTGTATAATTTCTGTCTAC
AGCTAGAAGCTGTGCCCCAGTTCCACATTTGATTACACATGTGAGATTTGCTGCTGTTGCAGTATAAACACTAGG
TATAATAGGATTTGAAATTGCATTACAGTTTATAAAAATTGAAAATGAGAAATTAACCTGCAAGTGAAACATTT
GAAACGATTATACTTTCTACATAAGACATGGTTGGGACATCAGATACTTACAAAGATGGTTTAAAGTATGGATACT
AGAGAAAATTAAGTTTTCTTTCTTTTGGTTTATTGATTTGGTTTAAATTTCCATTATGCTATTTTGATAATCAA
GGCACTGTAAATCTTATAATTTTTAAATAAATTACTTAAAGAACAGTTGTCATTGTTATGTTTTGTTATTGATTCT
CATTACTGTCTAATTTTTTTTTCTGGTATTAGTCTCATTTTGTATGTATATAAGTTAAACAGATACTGTTTTTAAG
TGCATGAATAGTACAAGTTATTATCAAGGATGTTTTACAGGGAAATCAAAAGAATATTATCATACTTTATCTTTC
GTATGCTGATTAGTAAACGATTTTTGACATTTATTTTAGAAAGTCTTATAATGTGGAAGAAACAAACAGTTGCTA
CCAAAGATTCTTCAAATAAACATACAAATAAATGTGTATATTTAATGTTTTATTGTTAGCTTCTCCAGAAAATTG
ATGCAAAATCTGGTAATAATTCTTGCAATTTTTTCCCCAATAACCTGGTTAAAATAGAATACGCCAT

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FIGURE 6143

TTTCCTTCCTCTTTTGGCAACATGCGGGGCGGAGAAGCTGGAGTGA CTCTAGGGCAGCCGCATCTTTCGCGTCAG
GATCTCACCACCTTGGATGTTACCAAGTTGACGCCACTTTCACACGAAGTTATCAGCAGACAAGCCACAATTAAC
ATAGGTACAATTGGTCATGTAGCTCATGGGAAATCCACAGTCGTCAAAGCTATTTCTGGAGTTCATACTGTCAGG
TTCAAAAATGAACTAGAAAGAAATATTACAATCAAGCTTGGATATGCTAATGCTAAGATTTATAAGCTTGATGAC
CCAAGTTGCCCTCGGCCAGAATGTTATAGATCTTGTGGGAGCAGTACACCTGACGAGTTTCTACGGACATTCCA
GGGACCAAAGGGAACCTTCAAATTAGTCAGACATGTTTCTTTGTTGACTGTCCTGGCCACGATATTTTGATGGCT
ACTATGCTGAACGGTGCAGCAGTGATGGATGCAGCTCTTCTGTTGATAGCTGGTAATGAATCTTGCCCTCAGCCT
CAGACATCGGAACACCTGGCTGCTATAGAGATCATGAACTGAAGCATATTTTGATTCTACAAAATAAAAATTGAT
TTGGTAAAAGAAAGTCAGGCTAAAGAACAATACGAGCAGATCCTTGCAATTTGTCCAAGGTACAGTAGCAGAGGGA
GCTCCCATATTCCAATTTTCAGCTCAGCTGAAATACAATATTGAAGTTGTTTGTGAGTACATAGTAAAGAAAATT
CCAGTACCCCCAAGAGACTTTACTTCAGAGCCCCGGCTTATTGTTATTAGATCTTTTGATGTCAACAAACCTGGC
TGTGAAGTTGATGACCTTAAGGGAGGTGTAGCTGGTGGTAGTATCCTAAAAGGAGTATTAAAGGTGGGCCAGGAG
ATAGAAGTAAGACCTGGTATTGTTTCCAAAGATAGTGAAGGAAACTCATGTGTAAACCAATCTTTTCCAAAATT
GTATCACTTTTTGCGGAGCATAATGATCTGCAATATGCTGCTCCAGGCGGTCTTATTGGAGTTGGAACAAAATT
GACCCCACTTTGTGCCGGGCTGACAGAAATGGTGGGGCAAGTACTTGGTGCAGTCGGAGCTTTACCTGAGATATTC
ACAGAATTGGAAATTTCTTATTTCTGCTTAGACGGCTTCTAGGTGTACGCACTGAAGGAGACAAGAAAGCAGCA
AAGGTTCAAAAGCTGTCTAAGAATGAAGTGCTCATGGTGAACATAGGATCCCTGTCAACAGGAGGGAGAGTTAGT
GCTGTCAAGGCCGATTTGGGTAAAATTGTTTTGACCAATCCAGTGTGCACAGAGGTAGGAGAAAAAATTGCCCTT
AGCCGAAGAGTTGAAAAACACTGGCGTTTAATTGGTTGGGGTCAGATAAGAAGAGGAGTGACAATCAAGCCAACA
GTAGATGATGACTGAAGAATACCAGTTAAATAATACATTGCGATGGATTGGAAGTTGGAATTCCTCTTAACAAC
CAAGGGGTTTATTTTCAAAGCAATATTGGGGAATTGATTTACAGTTTCGTTACCTTAGTAGGTAACGGTAAGGTT
ATTCTCTTTTTTTTTTTTTTTTTTGGTTATGAAAACCTAGGGACTAAAATTAATATAAAAAATTGGCATAATGTTGGAT
TGAATCTACATTTTGGCAGAAGTTAAACATTCCACATAATGTCAAAATTATACATCATGCAGTTCTGTTTTTTT
GTTTGTTTAATTTTGTTTTGTTTTGAGTCTGGCTCTGTCAACCCAGGCTGGAGTGCAGTGGCGTGATCTGCAACC
TCTGCCCCCGGGTTCAAGCGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTACAGGTGCGCGCCACCACA
CTTGGCTAATTTTTGTATTATTAGTAGAGACGGGGTTTCAGCATGTTGGCTAGGCCGGTCTCTCCTGACCTCAGG
GTGATCAGCCACCTCGGCCTCACAAAGTGCTGGGATTACAGGCGTGAGCCACCTTGCCCAGCCACATCATACA
GTTTGAAATGAACTTTGCCACAACCAGCCTTTGCTGTAGCACACACATATCACTGAACCTGTTTGAAATAAA
GTTTTTTTTCTTTTTTCATGATTGCTCTTTGAGTACCTCCAGGCTGAAAGACTGTTGTACCAGTAAAAACTTAAAG
GCACAAATTCTCCTTGAAGACCTTCTCCCTTTTATGTGGCCCCATATTTATGTTGCTTTATCTTTGAAATTTTG
CATGAAAAGGAAATGAATGGATTGAAATGAAATTGTCCTTTAGAGCATGATTACTTGTTCOCATGGACAAATATT
TTTCTCCCTTGCTCTTCTGGCCTGAAACACGGGAAACCAGAGTCAAAAGTTATCTCCCTCTCCCTGTGATGCC
TTGAGATTTTTTTCTGCGTTGTTTAAATGCCTGAAATCCAAGTCTTCTCCATGGGAAAATACTGTTATACCAAT
AATTCTAGATGAGTAACAAAGATCTTTTAGGCCTTCATTTTATGTTTTTTCTTAACTGTTATATTATGATTGTG
ACATAGATTATACTACTACTAATTTTTGGATGTTTCAAAAGGTCAAGAAGTAAAGATGTTAGAAAGCAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 6144

MAGGEAGVTLGQPHLSRQDLTTLDVTKLTPLSHEVISRQATINIGTIGHVAHGKSTVVKAISGVHTVRFKNELER
NITIKLGYANAKIYKLDDPSCPRPECYRSCGSSTPDEFPTDIPGTKGNFKLVRHVSFVDCPGHDILMATMLNGAA
VMDAALLLIAGNESCPQPQTSEHLAAIEIMKLKHILILQNKIDLVKESQAKEQYEQILAFVQGTVAEGAPIIPIS
AQLKYNIEVVCEYIVKKIPVPPRDFTSEPRLIVIRSFVNVKPGCEVDDLKGGVAGGSILKGVLKVGQEIEVRPGI
VSKDSEGKLMCKPIFSKIVSLFAEHNDLQYAAPGGLIGVGTKIDPTLCRADRMVGQVLGAVGALPEIFTELEISY
FLLRRLLGVRTEGDKKAAKVQKLSKNEVLMVNIGSLSTGGRVSAVKADLGKIVLTNPVCTEVGEKIALSRRVEKH
WRLIGWGQIRRGVTIKPTVDDD

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FIGURE 6145

CTCTCTCCGGTCTGTGCCTCCAAGATGACAAAGAAAAGAAGGAACAATGGTTCGTGCCAAAAAGGGCCGCGGCCAC
GTGCAGCCTATTCGCTGCACTAAATGTGCCCCGATGCGTGCCCAAGGAÇAAGGCCATTAAGAAATTCGTCATTCTGA
AACATAGTGGAGGCCGAGCAATCAGGGACATTTCTGAAGCGAGCGTCTTCGATGCCTATGTGCTTCCCAAGCTG
TATGTGAAGCTACATTACTGTGTGAGTTGTGCAATTCACAGCAAAGTAGTCAGGAATCGATCTCGTGAAGCCCCG
AAGGACCGAACACCCCCACCCCGATTTAGACCTGCGGGTGCTGCCCCACGTCCCCACCAAAGCCCATGTAAGGA
GCTGAGTTCTTAAAGACTGAAGACAGGCTATTCTCTGGAGAAAAATAAAATGGAAATTGTACTT

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FIGURE 6146

CTCTTTCTGCTGCTCCCCAGCTCTCGGATACAGCCGACACCATGGGTTTCAGAGACCTGAAAAGCCCCGCCGGCC
TCCAGGTGCTCAACGATTACCTGGCGGACAAGAGCTACATCGAGGGGTATGTGCCATCACAAGCAGATGTGGCAG
TATTTGAAGCCGTGTCCAGCCCACTGCCTGCCGACTTGTGTCATGCCCTACGTTGGTATAATCACATCAAGTCTT
ACGAAAAGGAAAAGGCCAGCCTGCCAGGAGTGAAGAAAGCTTTGGGCAAGTATGGTCCTGCCGATGTGGAAGACA
CTACAGGAAGTGGAGCTACAGATAGTAAAGATGATGATGACATTGACCTCTTTGGATCTGATGATGAGGAGGAAA
GTGAAGAAGCAAAGAGGCTAAGGGAAGAACGTCTTGACAATATGAATCAAAGAAAGCCAATGATGAGACAGATA
TGGCGAAATTAGAGGAGCGCGTCAGAAGCATTCAAGCAGACGGCTTAGTCTGGGGCTCATCTAAACTAGTTCCAG
TGGGATACGGAATTAAGAACTTCAAATACAGTGTGTAGTTGAAGATGATAAAGTCGGAACAGATATGCTGGAGG
AGCAGATCACTGCTTTTGAGGACTACGTGCAGTCCATGGATGTGGCTGCTTCAACAAGATCTAAAATCCATCCT
GGATCATG

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FIGURE 6147

ATCCTGACTTCCGCTTTGGAGGCGAGGACCCGAGCGAGTGTAGGGGGTGCGGCGTCTGGTCAGCCAGGGGTGAAT
TCTCAGGACTGGTCGGCAGTCAAGCCATCATGCTCGTGGTCAGAAGAGTAAGCTCCGTGCCCCGTGAGAAACGCC
GCAAGGCCCGAGATGAGACCCGGGGTCTCAATGTTCTCAGGTCACTGAAGCAGAGGAAGAAGAGGCCCCCTGCT
GTTCTCTTCTGTTTTCTGGGGTGCTGCTTCAAGCTCTCTGCTGCTGGCATTCCCCAGAAGCCTCAGAGAGCCC
CAACCACTGCCGCTGCTGCGGGTGCGGGTGTTTCATCCACAAAATCTAAAAAGGTGCCAAGAGCCACCAAGGTG
AGAAAAATGCAAGTTCCTCCCAGGCCTCAACATCCACTAAGAGCCCAAGCGAAGATCCTCTAACCAGGAAGTCAG
GGTCGTTGGTGCAGTTCCTGTTGTACAAGTATAAAATAAAAAAGTCCGTACAAAGGGAGAAATGCTGAAAATTG
TTGGCAAAAGGTTCAAGGAGCACTTCCCTGAGATCCTCAAGAAAGCCTCTGAGGGCCTCAGTGTTGTCTTTGGCC
TTGAGCTGAATAAAGTCAACCCCAACGGCCACACTTACACCTTCATCGACAAGGTAGACCTCACTGATGAGGAAT
CCCTGCTCAGTTCCTGGGACTTTCCAGGAGAAAGCTTCTGATGCCTCTCCTGGGTGTGATCTTCTTAAATGGCA
ACTCAGCTACTGAGGAAGAGATCTGGGAATTCCTGAATATGTTGGGAGTCTATGATGGAGAGGAGCACTCAGTCT
TTGGGGAACCCTGGAAGCTCATCACCAAGATCTGGTGCAGGAAAAATATCTGGAGTACAAGCAGGTGCCAGCA
GTGATCCCCACGCTTTCAATTCCTGTGGGGTCCGAGAGCCTATGCTGAAACCAGCAAGATGAAAGTCTTGAGT
TTTTGGCCAAGGTAAATGGTACCACCCCTGTGCCTTCCCAACCCATTACGAAGAAGCTTTGAAAGATGAAGAGA
AAGCCGGAGTCTGAGCCAGAGTTGTAGCCAGGCCTTGCACTACTGCCATAGCCAATCAATCTCCCAAGCCAAGT
TTACCTGCTGTTCTCACCCCAATGAGGTCTTAGGCAGATTCTTACTTTGTAATTCAAAAGGCCTGTTAACCTT
TGTTCTTGTTATGCATGAATAACTTGTGACTTTTTTTTTTCTCTTTTCAACTAGTGTTTCAACAGGTTTATT
TAGATTGAGAATGTAAATTTACAAATGATATAGATCACCTGTTATTGCTGTTTTTCAGGGACAGTAGAAAGTGT
TTTGTTTTTTGAGTGAAACAACCTTATTAATAAAAAATCCTTAAATCACTTTTGTAATCCAGGACAAGAAAAATGTGG
CATTAGAGTAGAAATATCTTTGGAAATGTGAAAGACCCCATAGTGAATATTTGGGATCAGAAGCCAGAGGTGTA
AAAGTGGTCAATTCTTGGTTTACTTCAATTTAATCTTTCTTTTCATAAAGATACATACCTGGATTTGTTTATGTTA
TTCAAGAATGTGTGAGAAATTAACCATAGTTAGTTAA

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FIGURE 6148

MPRGQKSKLRAREKRRKARDETRGLNVPQVTEAEEEEAPCCSSSVSGGAASSSPAAGIPQKPQRAPTTAAAAAAG
VSSTKSKKGAKSHQGEKNASSSQASTSTKSPSEDPLTRKSGSLVQFLLYKYKIKKSVTKGEMLKIVGKRFRHF
EILKKASEGLSVVFGLELNKVPNGHTYTFIDKVDLTDEESLLSSWDFPRRKLMLLGVIFLNGNSATEEEIWE
FLNMLGVYDGEHHSVFGEPWKLITKDLVQEKYLEYKQVPSSDPPRFQFLWGPRAYAETSKMKVLEFLAKVNGTTP
CAFPTHYEEALKDEEKAGV

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FIGURE 6149

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTTAGACT
CCGATATGGGGTCTTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGTGATCATCCACATCGAGGTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACTGTGGGTAAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCGATGATGCACAACAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAACTAGTGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATAACATGGTTTTTGTAAACAATAAATGTAGGATATTTCTTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAA

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FIGURE 6150

MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSMHAH
EDFCGHTGKMNP GDLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLR SSEKMVEPQYQELKSEEIPKPSKDGVTV A
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWTSFIYTIISGDVYIGPDDAQQKIEPHHTAVLGEGDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQA ILDFRNAKNGFERAKTWKSKIGN

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FIGURE 6151

CTCTCTGCTCCTCCTGTTCTACAGTCAGCCGCATCTTCTTTTGCATCGTCAGCCAAACCACATCCCTGAGACACC
ATGGGGAAGGTGAAGGTCGGAGTCAACAGATTTGGTCGTACTGGGCGCCTGGTTCACCAGGGCTGCTTTTAACTCT
GGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCATTGACCTGAACTACATGGTTTACATGTTCCAATATGAC
TCCACCCATAGCAAATTCCATGGCACCCTCAAGGCTGAGAATGGGAAGCTTGTTCATCAATGGAAATCCCATCACC
ATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGGGCGATGCTGGCGCTGAGTACGTTCATGGAGTCCACTGGC
GTCTTACCACCATGTAGAAGGCTGGGCCTCATTTCAGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCT
GCTGATGCCCCAATGTTTGTTCATGGGTGTGAACCATGAGAAGTATGACAACAACCTCAAGATTGTCGGCAGTGCC
TTCTGCACCACCACTGCTTAGCACCCCTGGCCAAGGTTCATCCATGACAACCTTTGGTATCGTGGGAAGGACTCATG
ACCATAGTCCACGCCATCACTGCCACCCAGAAGACTGTGGATGGCCCCCTCCGGGAAACTGTGGCGTGATGGCCAC
GGGGCTCTCCAGAACATCATCCCTGCCTCTACTGGCACTGCGAAGGCTATGGGCAAGGTTCATCCCTGAGCTGAAC
GGGAAGCTCACTGGCATGGCCTTCTGTGTCCCCACTGCCGTGTGAGTGGTGGACCTGACCTGCCGTCTGGAAAAA
CCTGCCAAATATGATGACACCAAGAAGGTGGTGAAGCAGGCATCGGAGGGCCCCCTCAAGGGCATCCTGGGCTAC
ACTGAGCACCAGGTGGTCTCCTCCGACTTCAACAGCAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTCAAT
GCCCTCAACAACCACTTTTCAAGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGAC
CTCATGGCCCACATGGCCTCCAAGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAG
AGACCCTCACTGCTGGGGAGTCCCTGCCACACTCAGTCCCCCACCACACTGAATCTCCCCTCCTCACAGTTTCCA
TGTAAGACCCCTTGAAGAGGGGAGGGGCCTAGGGAGCCCCACCTTGTCATATACCATCAATAAAGTACCCTGTGCT
CAGCC

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FIGURE 6152

CTTTTGATCGTCAGCCAAACCACATCCCTGAGACACCATGGGGAAGGTGAAGGTGCGAGTCAACAGATTGCTC
GTACTGGGCGCCTGGTCACCAGGGCTGCTTTTAACTCTGGTAAAGTGGATATTGTTGCCATCAATGACCCCTTCA
TTGACCTGAACTACATGGTTTACATGTTCCAATATGACTCCACCCATAGCAAATTCATGGCACCGTCAAGGCTG
AGAATGGGAAGCTTGTCATCAATGGAAATCCCATCACCATCTTCCAGGAGCGAGATCCCTCCAAAATCAAGTGGG
GCGATGCTGGCGCTGAGTACGTCATGGAGTCCACTGGCGTCTTACCACCATGTAGAAGGCTGGGCCTCATTGCTC
AGGGGGGAGCCAAAAGGGTCATCATCTCTGCCCCCTCTGCTGATGCCCCAATGTTTGTGTCATGGGTGTGAACCATG
AGAAGTATGACAACAACACCCACTCTTCCACCTTCAATGCTGGGGCTGTGATTGCCCTCAACAACCACTTTTTCA
AGCTCATTTCCTGGTATGACAATGAATTTGGCTACAGCAACAGGATGGTGGACCTCATGGCCCACATGGCCTCCA
AGGAGTAAGACCCCTGGACCACCAGCCCCAGTAAGAGCACAAGAGGAAGAGAGAGACC

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FIGURE 6153A

CCTCTGCCACCATGGGGAACTGGGCTGTGAATGAGGGGCTCTCCATTTTTGTCATTCTGGTTTGGCTGGGGTTGA
ACGTCTTCTCTTTGTCTGGTATTACCGGGTTTATGATATTCCACCTAAGTTCTTTTACACAAGAAAACCTTCTTG
GGTCAGCACTGGCACTGGCCAGGGCCCCCTGCAGCCTGCCTGAATTTCAACTGCATGCTGATTCTCTTGCCAGTCT
GTCGAAATCTGCTGTCTTCTCAGGGGTTCCAGTGCCTGCTGCTCAACAAGAGTTTCAAGACAACCTGGACAGGA
ATCTCACCTTTCATAAAATGGTGGCATGGATGATTGCACTTCACTCTGCGATTACACCACTTGCACATCTATTTA
ATGTGGAATGGTGTGTGAATGCCCGAGTCAATAATTCTGATCCTTATTTCAGTAGCACTCTCTGAACCTGGAGACA
GGCAAAATGAAAGTTATCTCAATTTTGCTCGAAAGAGAATAAAGAACCCTGAAGGAGGCCTGTACCTGGCTGTGA
CCCTGTTGGCAGGCATCACTGGAGTTGTTCATCAGCTGTGCCTCATATTAATTATCACTTCCTCCACCAAAACCA
TCCGGAGGTCTTACTTTGAAGTCTTTTGGTACACACATCATCTCTTTGTGATCTTCTTCATTGGCCTTGCCATCC
ATGGAGCTGAACGAATTGTACGTGGGCAGACCGCAGAGAGTTTGGCTGTGCATAATATAACAGTTTGTGAACAAA
AAATCTCAGAATGGGGAAAAATAAAGGAATGCCCAATCCCTCAGTTTGTGGAACCCCTCTATGACTTGGAAAT
GGATAGTGGGTCCCATGTTTCTGTATCTCTGTGAGAGGTTGGTGGCGTTTGGCGATCTCAACAGAAGGTGGTCA
TCACCAAGGTGGTCACTCACCTTTCAAACCATCGAGCTACAGATGAAGAAGAAGGGGTTCAAAATGGAAGTGG
GACAATACATTTTGTCAAGTGCCCAAAGGTGTCCAAGCTGGAGTGGCACCCCTTTTACACTGACATCCGCCCTG
AGGAAGACTTCTTAGTATCCATATCCGCATCGTTGGGGACTGGACAGAGGGGCTGTTCAATGCTTGTGGCTGTG
ATAAGCAGGAGTTTCAAGATGCGTGGAAACTACCTAAGATAGCGGTTGATGGGCCCTTTGGCACTGCCAGTGAAG
ATGTGTTCACTATGAGGTGGTGTATGTTAGTGGGAGCAGGGATTGGGGTCACACCCCTTCGCATCCATTCTCAAGT
CAGTCTGGTACAAATATTGCAATAACGCCACCAATCTGAAGCTCAAAAAGATCTACTTCTACTGGCTGTGCCGGG
ACACACATGCCTTTGAGTGGTTTGCAGATCTGCTGCAACTGCTGGAGAGCCAGATGCAGGAAAGGAACAATGCCG
GCTTCTCAGCTACAACATCTACCTCACTGGCTGGGATGAGTCTCAGGCCAATCACTTTGCTGTGCACCATGATG
AGGAGAAAGATGTGATCACAGGCCTGAAACAAAAGACTTTGTATGGACGGCCCAACTGGGATAATGAATTAAGA
CAATTGCAAGTCAACACCCTAATACCAGAATAGGAGTTTTCCTCTGTGGACCTGAAGCCTTGGCTGAAACCCCTGA
GTAAACAAAGCATCTCCAACCTGAGTCTGGCCCTCGGGGAGTGCATTTCAATTTCAACAAGGAAAACCTCTAAC
TTGCTCTTCCATGAGGAATAAATGTGGGTGTGCTGCCAAATGCTCAAATAATGCTAATTGATAATATAAATA
CCCCCTGCTTAAAAATGGACAAAAGAACTATAATGTAATGGTTTCCCTTAAAGGAATGTCAAAGATTGTTTG
ATAGTGATAAGTTACATTTATGTGGAGCTCTATGTTTGTAGAGCACTTTTACAAACATTATTTCAATTTTTTCC
TCTCAGTAATGTGAGTGGAAAGTTAGGGAAAGATTCTTGGACTCAATTTTAGAATCAAAAGGGAAAGGATCAAAA
GGTTCAGTAACCTTCCCTAAGATTATGAACTGTGACCAGATCTAGCCCATCTTACTCCAGTTTGATACTCTTTC
CACAATACTGAGCTGCCTCAGAATCCTCAAATCAGTTTTTATATTCCCCAAAAGAAAGGAAACCAAGGAGTA
GCTATATATTTCTACTTTGTGTCAATTTTTGCCATCATTATTATCATACTGAAGGAAATTTCCAGATCATTAGGA
CATAATACATGTTGAGAGTGTCTCAACACTTATTAGTGACAGTATTGACATCTGAGCATACTCCAGTTTACTAAT
ACAGCAGGGTAACTGGGCCAGATGTTCTTTCTACAGAAGAATATTGGATTGATTGGAGTTAATGTAATACTCATC
ATTTACCACTGTGCTTGGCAGAGAGCGGATACTCAAGTAAGTTTGTAAATGAATGAATGAATTTAGAACACACA
CAATGCCAAGATAGAATTAATTTAAAGCCTTAAACAAAATTTATCTAAAGAAATAACTTCTATTACTGTATAGA
CCAAAGGAATCTGATTCTCCCTAGGGTCAAGAACAGGCTAAGGATACTAACCAATAGGATTGCCTGAAGGGTTCT
GCACATTCTTATTTGAAGCATGAAAAAGAGGGTGGAGGTGGAGAATTAACCTCCTGCCATGACTCTGGCTCAT
CTAGTCTGCTCCTTGTGCTATAAAATAAATGCAGACTAATTTCTGCCCAAAGTGGTCTTCTCCAGCTAGCCCT
TATGAATATTGAACTTAGGAATTGTGACAAATATGTATCTGATATGGTCATTTGTTTAAATAACACCCACCCCT
TATTTTCCGTAAATACACACACAAAATGGATCGCATCTGTGTGACTAATGGTTTATTTGTATTATATCATCATCA
TCATCCTAAAATTAACAACCCAGAAACAAAATCTCTATACAGAGATCAAATTCACACTCAATAGTATGTTCTGA
ATATATGTTCAAGAGAGAGTCTCTAAATCACTGTTAGTGTGGCCAAGAGCAGGGTTTTCTTTTGTCTTAGAAC
TGCTCCCATTCTGGGAATAAAACAGTTTTATTTGCCCCACCCCTTGGAGCCACAAATGTTTGAAGTCTTCA
ACTTCGGTAATGAGGAAGAAGGAGAAAGAGCTGGGGGAAGGGCAGAAGACTGGTTTAGGAGGAAAAGGAAATAAG
GAGAAAAGAGAATGGGAGAGTGAGAGAAAATAAAAAAGGCAAAAGGAGAGAGAGGGGAAGGGGGTCTCATATTG
GTCATTCCCTGCCCCAGATTTCTTAAAGTTTGATATGTATAGAATATAATTGAAGGAGGTATACACATATTGATG
TTGTTTTGATTATCTATGTTATTGAATCTTTTAAATCTGGTCACAAATTTGATGCTGAGGGGGATTATTCAAG
GGACTAGGATGAATAAATAAGAACTCAGTTGTTCTTTGTCACTACTATTCTTTCTGCTCTCCAGAATCTCTCA
GGGCACTGAGGGTAGGTCTGACAAATAAGGCCTGCTGTGCGAATATAGCCTTTCTGAAATGTACCAGGATGGTTT

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FIGURE 6153B

CTGCTTAGAGACACTTAGGTCCAGCCTGTTCACTGACCTCAGGTATCAATTCATCTATTCAACAGATATTTA
TTGTGTTATTACTATGAGTCAGGCTCTGTTTATTGTTTCAATTCCTTTACACCAAAGTAIGAAGTGGAGAGGGTAC
CTCAGTTATAAGGAGTCTGAGAATATTGGCCCTTTCTAACCTATGTGCATAATTAAAACCAGCTTCATTTGTTGC
TCCGAGAGTGTTTCTCCAAGGTTTTCTATCTTCAAAACCAACTAAGTTATGAAAGTAGAGAGATCTGCCCTGTGT
TATCCAGTTATGAGATAAAAAATGAATATAAGAGTGCTTGTCATTATAAAAGTTTCCTTTTTTATTCTCTCAAGC
CACCAGCTGCCAGCCACCAGCAGCCAGCTGCCAGCCTAGCTTTTTTTTTTTTTTTTTTTTTAGCACTTAGTAT
TTAGCATTTATTAACAGGTACTCTAAGAATGATGAAGCATTGTTTTTAATCTTAAGACTATGAAGGTTTTCTTA
GTTCTTCTGCTTTTGCAATTGTGTTTGTGAAATTTGAATACTTGCAGGCTTTGTATGTGAATAATTCTAGCGGGG
GACCTGGGAGATAATTCCTACGGGGAATTCTTAAACTGTGCTCAACTATTAAATGAATGAGCTTTC

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FIGURE 6154

MGNWAVNEGLSIFVILVWLGLNVFLFWYYRVYDIPPKFFYTRKLLGSALALARAPAAACLNFNCLILLPVCRL
LSFLRGSSACCSTRVRRQLDRNLTFHKMVAWMIALHSAHTIAHLFNVEWCVNARVNNSDPYSVALSELGDRQNE
SYLNFARKRIKNPEGGLYLAVTLLAGITGVVITLCLILIITSSTKTIRRSYFEVFWYTHHLFVIFFIGLAIHGAE
RIVRGQTAE SLAVHNITVCEQKISEWGKIKECPIQFAGNPPMTWKWIVGPMFLYLCERLVRFWRSQQKVITKV
VTHPFKTIELQMKKKGFKMEVGQYIFVKCPKVSKLEWHPFTLTSAPEEDFFSIHIRIVGDWTEGLFNACGCDKQE
FQDAWKLPKIAVDGPFGTASEDVFSYEVVMLVGAGIGVTPFASILKSVWYKYCNNATNLKLKKIYFYWLCRDTHA
FEWFADLLQLLESQMQERNNAGFLSYNIYLTGWDESQANHFAVHHDEEKDVITGLKQKTLYGRPNWDNEFKTIAS
QHPNTRIGVFLCGPEALAETLSKQISNSSESGPRGVHFI FNKENF

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FIGURE 6155

AAAACACCAATGGCGGATGACGCCGGTGCAGCGAGGAGGGTCCGGAGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATATATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGACTTTT
GCTTGGGGGCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGATCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCGTTTGTGCTATCGGGGACTACAATGGCCACGTCCGTCTGGGTGTTAAGTGTTCGAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATTGTCCCCGTGCGCAGAGGCTACTGGAGGA
ACAAGATCGGCAAGCCCCACACCGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTGCGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTTATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTT
ACACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 6156

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESIIDFCLGASLKDEVLKIMPVQKQIRAGQRTREKAFVAIGDYN
HVGLGVKCSKEVATAIRGAILAKLSIVPVRGYWRNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAPVP
KKLLMMAGIDDCYTSARGCTATLGNFAKATFDAlSKTYSYLTPLWKETVFTKSPYQEFTHLVKTHTRVSVQRT
QAPAVATT

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GACATCCAGTCATGGATAAAAAATGAGCTGGTTTCAGAAAGGCCAACTGGCCGAGCAGGCTGAGCGATATGATGAC
 ATGGCAGCCTGCATGAAGTCTGTAACTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTCTCAGTT
 GCTTATAAAAAATGTTTTAGGAGCCCGTAGGTTCATCTTGGAGGGTCTGCTCAAGTATTGAACAAAAGACGGAAGGT
 GCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGCAATGAT
 GTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTGAAAATG
 AAAGGAGATTACTACCATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAAGGGATTGTGGATCAGTCACAA
 CAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGTCTGGCC
 CTTAACTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACAGCTTTT
 GATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAATTACTG
 AGAGACAACCTTGACATTGTGGACATCAGATACCCAAGGAGACGAAGCTGAAGCAGGAGAAGGAGGGGAAAATTAA
 CCGGCCTTCCAACCTTTTGTGTGCCTCATTCTAAAATTTACACAGTAGACCATTGTGCATCCATGCTGTCCCACAA
 AGTTTTTTATTTACGATTTATGACAGGTTTATGTTACTTCTATTTGAATTTCTATGTTTCCCATGTGGTTTTCAT
 GTTAAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAGTTACCTGTTTTCATCTTGAGGTGGCCAATATGGG
 GATGTGGAATTTTATACAAGTTATAAATGTTTGGCATAGTACTTTTGGTACATTGTGGCTTCACAAGGGCCAGG
 GTAAACTGCTTCCCTGTCCAAGCAAAGAAAAGTGCCTACATATTGGTTTGTCTGGTGGGGAATAAAAGGGATC
 ATTGGTTCCAGTCAAGGTGTAGTAATTGTGGGTACTTTAAGGTTTGGAGCACTTACAAGGCTGTGGTAGAAACA
 TACCCCATGGATACCACATATTAACCATGTATATCTGTGGAATACTCAATCTCAATGTGCACACCTTTGACTAC
 AACTGCAGAAGTGTTTCCTTTAGACAAAGTTGTGACCCATTTTACTCTGGATAAGGGCAGAAACGGTTCACATTCC
 ATTTATTTGTAAAGTTACCTGCTGTTAGCTTTTCATTATTTTTGTCTACACTCATTTTATTTGTATCTAAATGTTTTA
 GGCAACCTAAGAACAAATGTAAAGTAAAGATGCAGGAAAAATGAATTGCTTGGTATTCACTTTCATCTGTAT
 CAAGCACAGCAGTAAAAACAAAACCCATGTATTTAACTTTTTTTTTTAGGTTTTTGTCTTTTGTGATTTTTTTTT
 TTGATACTTGCCTAACATGCATGTGCTGTATAACAATCCAAGCATAATTGTTAAGAACACATGTATTAAATTTCAT
 GTAAGTGGAATAAAAGTTTTATGAATGGACTTTTCAACTACTTTCTCTACAGCTTTTCATGTAAATTAGTCTTTT
 GGTTCTGAAAACCTTCTCTAAAGGAAATTGTACATTTTTTGAAATTTATTCCCTTATTCCCTCTTGGCAGCTAATGGG
 CTTTACCAAGTTTAAACACAAAATTTATCATAACAACAAAATACTACTAATATAACTACTGTTTCCATGTCCC
 GTGATCCCCTCTCTTCCCTCCCACCCTGAAAAAATGAGTTCCAATTTTTTTGGGAGAGGGGAGATTGATTAGAA
 AAAAATGTAATATGTTCCATTTAAATTTTGGCGTATGGCATTCTTAACCTTAGGAAGCCACAATGTTCTTGGCC
 CGTCATGACATTGGGTAGCATTAACTATAAGTTTTGTGCTTCCAAATCACTTTTTGGTTTTTAAGAATTTCTTGA
 TACTCTTATAGTCTGCCTTCAATTTTGATCCTTTATTCTATTTGTCAGGTGCACAAGATTACCTTCCTTTTTTAG
 CCTCTGTCTTGTACCAACCATTCCCTACTTGGTGGCCATGTAAGTTGAAAAAGGCCGCATGACCTTTCTGGCTC
 CACTCAGTGTCTAAGGCACCCTGCTTCCTTTGCTTGCATCCACAGACTATTTCCCTCATCCTATTTACTGTCAG
 AAATCTCTCCTTAGTTGATGAGATTGTGTTTATCTCCCTTTAAACCCCTGCCTATCCTGAATGGTTTGTCTATTGT
 CTGCCCTTTAAAATCTTCTCTCTTCTTCTCTCTCTGTTCTCTAAATAATGATGGGGCTAAGTTATACCCAAAGCT
 CAGCTTTACAAAATATTTTCTCTAGTACTTTTGAGAAAAACCAAAACAAAATGCCATTTTAAAGAGGTATATTTT
 TCTTTTGAAGATGAAGCTCCTCAAGCAGGGACAATGTTTTCTGTATGTTCTGTTGTGCCTAGTACACTGTAA
 ATGCTCAATAAATATTGATGATGGGAGGCA

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FIGURE 6158

GATGACATGGCAGCCTGCATGAAGTCTGTAAGTCTGAGCAAGGAGCTGAATTATCCAATGAGGAGAGGAATCTTCTC
TCAGTTGCTTATAAAAAATGTTTTAGGAGCCCGTAGGTCATCTTGGAGGGTCGTCTCAAGTATTGAACAAAAGACG
GAAGGTGCTGAGAAAAAACAGCAGATGGCTCGAGAATACAGAGAGAAAGTTGATACGGAGCTAAGAGATATCTGC
AATGATGTACTGTTTCTTTTGGAAAAGTTCTTGATCCCCAGTGCTTCACAAGCAGAGAGCAAAGTCTTCTCTTTG
AAAATGAAAGGAGATTACTACCAATTACTTGGCAGAGGTTGCCACTGGTGATGACAAGAAAGGGATTGTGGATCAG
TCACAACAAGCATACCAAGAAGCTTTTGAAATCAGCAAAAAGGAAATGCAACCAACACATCCTATCAGACCAGGT
CTGGCCCTTAACCTTCTCTGTGTTCTATTATGAGATTCTGAACTCCCCAGAGAAAGCCTGCTCTCTTGCAAAGACA
GCTTTTGATGAAGCCATTGCTGAACTTGATACATTAATTGAAGAGTCATACAAAGACAGCATGCTAATAATGCAA
TACTGAGAGACAACTTGACAATGTGGTTTTTCATGTTTAATATTAGGGGAGTAGAGCCAGTTAACATTTAGGGAG
TTACCTGTTTTTCATCTTGAGGTGGCCAATATGGGGATGTGGAATTTTTATACAAGTTATAAATGTTTGGCATAGT
ACTTTTGGTACATTGTGGCTTCA

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FIGURE 6159

AGCTGACACAACCAAGACGAGTCTCAGTGTCTAGGGAAGCTTGGGGTTCTGCTCCTTTTACTTCAGGCGAACCTG
AACTTTAATGCAATTTTGAAGCATGCCCTGAATAGATTCAAGTCAAACAAAAACGGTGAAAGGT
TGCGACTATTACCAAATAGAAGACAATGAGAAGTCATACCATAACAATGACGACAACCTTCAGTCAGCAGCTGGCC
TTACTCCTCCACAGAATGCGCTTTATAACCAATCATAGCGACCAACCGCCACAAAACCTTCTCAGCAACACCAA
TGTTACTACCTGTCCCATGGATGAAAAATTGCTATCTACTGTGTTAACACATCCTACTCTGTTATTTTCATCGT
GGGACTGGTTGGGAACATAATCGCCCTCTATGTATTTCTGGGTATTCACCGTAAAAGAAATTCCATTCAAATTTA
TCTACTTAACGTAGCCATTGCAGACCTCCTACTCATCTTCTGCCTCCCTTTCCGAATAATGTATCATATTAACCA
AAACAAGTGGACACTAGGTGTGATTCTGTGCAAGGTTGTGGGAACACTGTTTTATATGAACATGTACATTAGCAT
TATTTTGCTTGGATTTCATCAGTTTGGATCGCTATATAAAAAATTAATCGGTCTATACAGCAACGGAAGGCAATAAC
AACCAAAACAAAGTATTTATGTCTGTTGTATAGTATGGATGCTTGCTCTTGGTGGATTCCCTAACTATGATTATTT
AACACTTAAGAAAGGAGGGGCATAATTCCACAATGTGTTTTCCATTACAGAGATAAGCATAACGCAAAAGGAGAAGC
CATTTTTAACTTCATTCTTGTGGTAATGTTCTGGCTAATTTTCTTACTAATAATCCTTTCATATATTAAGATTGG
GAAGAATCTATTGAGGATTCTAAAAGGAGGTCAAAATTTCTTAATTCTGGTAAATATGCCACTACAGCTCGTAA
CTCCTTTATTGTACTTATCATTTTTACTATATGTTTTGTTCCCTATCATGCCTTTCGATTTCATCTACATTTCTTC
ACAGCTAAATGTATCATCTTGCTACTGGAAAGAAATTGTTTCAAAAACCAATGAGATCATGCTGGTTCTCTCATC
TTTCAATAGTTGCTTAGATCCAGTCATGTATTTCTGATGTCCAGTAACATTGCAAAATAATGTGCCAACTTCT
TTTTAGACGATTCAAGGTGAACCAAGTAGGAGTGAAAGCACTTCAGAATTTAAACCAGGATACTCCCTGCATGA
TACATCTGTGGCAGTGAATAACAGTCTAGTTCTAAAAGTACTTGAGGTAAACATACTAAAATGAATTATATAAT
GCAGCCTCTTAATCTTTGAAGAACTAAAAAATTAGGAAACAAGTTCTAGCATTACAAAACCTCAGATCTCAAAG
CTCTGCTTGTATTTGTGATATTTTCATTTGCTTAACTGTAAACCATTTCAAGGTACTATCTTTTAAATCTGTATGT
AAAATCTTTTCAAAATACATTTTTAAGCTAATACTCTTAACATAGATTATGAAGTTAAGTGAAATTTATGGCTCT
AACAGCAAAATAATTAAGTGCCATAGTTTCTCAAGTGACTAAAGTAGTTATTAATCAAGCACTTGATACTAA
TTTGAAGTGTGTTTAAAGTAAATGATTTGGGAAGTACAATGTGTGAGAAAATATATGTTCAATTTATCATTTTA
AAATCTTGTATAATTTGCCACTGTATTCATTTATGCCTAAATCTCTATAACAGATGAAAAGATAATTAATAAAAT
CCTAATTAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6160

MRSHTITMTTTSVSSWPYSSHRMRFITNHSQPPQNF SATPNVTTCPMDEKLLSTVLTTSSVIFIVGLVGNIIA
LYVFLGIHRKRNSIQIYLLNVAIADLLIFCLPFRIMYHINQNKWTLGVILCKVVGTIFYMNMYSIILLGFISL
DRYIKINRSIQQRKAITTKQSIYVCCIVWMLALGGFLTMIILTLKKGHNSTMCFHYRDKHNAKGEAIFNFILV
MFWLIFLLIILSYIKIGKNLLRISKRRSKFPNSGKYATTARN SFIVLIIFTICFVPYHAFRFIYISSQLNVSSCY
WKEIVHKTNEIMLVLSFNSCLDPVMYFLMSSNIRKIMCQLLFRRFQGEPSRSESTSEFKPGYSLHDTSVAVKIQ
SSSKST

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FIGURE 6161

TTTCCGCGCTACCTACAGAGGGGTCCATATGGCGTTGTTCTGGATTCCCATCGTAACTTAAAGGGAAACTTTTCAC
AATGTCCGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCATGCAGCAGGAACCCACTT
AGGCGGCACCAATCTTGACTTCCAGATGGAAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGTTTCTGCTGGCAGCTCGTGCTGTTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCGGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCACTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTGGTTAC
TGACCCCAAGGGCTGACCACCAGCCTCTCACGGAGTCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAACAC
AGATTCTCCTCTGCGCTATGTGGACATTGCAACAACAAGGGAGCTCACTCAGTGGGTTTTGATGTGGTGGATGCTG
GCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCTGTTGGACACCCATGGGAGGTCATGCCTGATCTCTACTTC
TACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAGTGACCAAGGAGGAATTTTCAG
GGTGAATGGACTGCTCCTGCTCCTGAGTTCACTGCCACTCAGCCTGAGGTTGCAGACTTGTCTGAAGGTGTACAG
GTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGACGACTGGAGCACTCAGCCTGCCACGGAAAACCTGGTCTGCA
GCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGATAGGCTCTT
AAGCAACATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6162

MSGALDVLQMKEEDVLKFHAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKFLLAARAVVAIENPADVS
VISSGNTGQRAVLKFAAATGATPIAGHFTPGTFTNQIAAFREPRLLVVTDPRADHQPLTESSYVNLPTIALCNT
DSPLRYVDIATTRELTQWV

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[illegible]

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FIGURE 6164

MMGLSNLSPGPGPSQAVPLPEGLLRQRYREEKLEERRWERLEFLQKKAFLRHVRRRHRDHMAPYAVGREARIS
PLGDRSQNRFRCECRYCQSHRPNLGIPGESNRAPHPSSWETLVQGLSGLTSLGTNQPGPLPEAALQPQETEEK
RQERQQESKIMFORLLKQWLEEN

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FIGURE 6165

GGCACGAGGGTGGTCGGAGCGCCGACTCCCTTCTCGTCGTCGCCATTTTGGAGCTGGTGACTGTGGCCGGCTGGGA
GTAGGCGGCAGTGAGTTTCCCTGGGAGGGCAGCGCGCTTGGCGCTTCTCCCTCCCCCGATCTGCCTCCAGTCT
CGGACTTGGTTGTTGCGCGCTCCGGCTCCGGCTGAGCTGGGAGAGTTGGAGGAGGTGGCGGGCGGGCAGAGGTGAT
GTCTGGGAGCCCTTCCCTTGACAGCCCCGGGCCGAGAAGAGTCCCTGCAGGAAGCATCACCCAGGCTGGCAGATCAT
GGTAGCAGCAGCGGGGGTGGCTGGGAAGTGAAACGGAGCCAGCGGCTGAGGAGGGGCCCCAGCAGCCCCCGAAGG
CCCTATCAGGACATGGAGTATGAAAGACGTGGTGGTGGTGACAGGACTGGCCGCTATGGAGCCACTGACCGC
TCGCAGGATGATGGTGGGGAGAACCAGCCAGCCGAGACCAGACTACCGGGACATGGACTACCGTTTATATCCTCGC
GAGTATGGCAGCCAGGAGGGCAAGCATGACTATGACGACTCATCTGAGGAGCAGAGTGCGGAGGATTCTTACGAG
GCCTCCCCGGGCTCCGAGACTCAGCGTAGGCGGGCGGGCGGCACAGGCACAGCCCCACCGGCCCGCCAGGCTTC
CCCCGAGACGGCGACTATCGGGACCAGGACTATCGGACCAGCAAGGGGAGGAGGAGGAGGAGGAGGAGGATGAG
GAGGAGGAGGAGAAGGCCAGTAACATCGTCATGCTGAGGATGCTGCCACAGGCAGCCACTGAGGATGACATCCGT
GGCCAGCTGCACTCGCACGGCGTGCAAGCACGGGAGGTTCCGGCTGATGCGGAACAAATCTTCAGGTGAGAGCCGG
GGCTTCGCCCTTCGTCGAGTTTAGTCACTTGACAGGACGCTACACGATGGATGGAAGCCAATCAGCACTCCCTCAAC
ATCTGGGCCAGAAGGTGTCGATGCACTACAGTGACCCCCAAGCCCAAGATCAATGAGGACTGGCTGTGCAATAAG
TGTGGCGTCCAGAACTTCAAACGCCGAGAGAAGTGCTTCAAATGTGGCGTGCCCAAGTCAGAGGCAGAGCAGAAG
CTGCCCTCGGCACGAGGCTGGATCAGCAGACACTGCCACTGGGTGGCCGGGAGCTGAGCCAGGGCCTGCTTCCC
CTGCCGAGCCCTACCAGGCCCAGGGAGTCTTGGCCTCCCAAGCCCTGTACAGGGCTCGGAGCCAAGCTCAGAG
AACGCCAATGACACCATCATTTTGGCGAACCTGAACCCACACAGCACCATGGATTCCATCTTGGGGGCCCTGGCA
CCCTACGCGGTGCTGTCTCTCTCAACGTGCGCGTCATAAAGGACAAGCAGACCCAACTGAACCGCGGCTTTGCC
TTCATCCAGCTCTCCACCATCGTGAGGACAGCCAGCTGCTGCAGATCTTGCAGGCCCTGCACCCACCACTCACT
ATCGAGGCAAGACCATCAATGTTGAGTTTGCCAAGGGTTCTAAGAGGGACATGGCCTCCAATGAAGGCAGTCGC
ATCAGTGTGCTGCTGTGGCCAGCACTGCCATTGCTGCGGCCAGTGGGCCATCTCACAGGCCCTCCCAAGGTGGG
GAGGGTACCTGGGCCACCTCCGAGGAGCCCGGCTCGACTACAGCTACTACCAACAGGATGAGGGCTATGGCAAC
AGCCAGGGCAGCACTTCCCTCTATGCCCCAGCTACCTCAAGGGCACCAGGGCCCTGGCATCACTGGAACC
AAAGGGGATCCCACTGGAGCAGGTCCCGAGGCCCTCCCTAGAGCTGGGGCCGACTCTGTGTGATGAGGCTTTC
TCTCGCGCCCAGCCTGGTGCTGCTCCTGGCATCTACCAACAATCAGCCGAGGCGAGCAGGCCAGGGCACTGCT
GCCAACAGCCAGTCGTATACCATCATGTACCCGCTGTGCTCAAATCTGAGCTCCAGAGCCCTACCCATCCTAGT
TCTGCTCTCCACCGGCTACCAGCCCCACTGCCAGGAATCCTACAGCCAGTACCCTGTTCCCGAGCTCTCTACC
TACCAGTACGATGAGACCTCCGGCTACTACTATGACCCCCAGACCGGCCTCTACTATGACCCCACTCCCACTAT
TACTACAATGCTCAGAGCCAGCAGTACCTGTACTGGGATGGGGAGAGGCGGACCTATGTTCCCGCCCTGAGCAG
TCGGCCGACGGACATAAGGAGACAGGGGCACCCTCGAAGGAGGGCAAAGAGAAGAAGGAGAAGCACAAAGACCAAG
ACAGCTCAACAGATTGCCAAGGACATGGAACGCTGGGCCCGCAGTCTCAACAAACAAAAAGAAAATTTCAAAAAAT
AGCTTCCAGCCTATCAGCTCCCTGCGAGATGACGAGAGGCGGGAGTCAGCCACTGCAGATGCTGGCTATGCCATC
CTCGAGAAGAAGGGAGCACTAGCCGAGAGACAGCACACCAGCATGGATCTCCCGAAATTGGCCAGTGACGACCGC
CCAAGCCCTCCGCGAGGACTGGTGGCAGCCTACAGCGGGGAGAGTGACAGTGAGGAGGAGCAGGAGCGTGGGGGC
CCTGAGCGGGAGGAGAAGCTCACCGACTGGCAGAAGCTGGCCTGTCTGCTCTGCCGACGCCAGTTCCCCAGCAAA
GAGGCGCTCATCCGGCACAGCAGCTCTCAGGGCTCCACAAGCAAAACCTTGAGATTCACCGGCGAGCCCACTTG
TCAGAAAACGAGCTAGAAGCACTAGAGAAGAATGACATGGAGCAAATGAAGTACCGGGACCGTGACAGCTGAACGC
AGAGAAAAGTATGGCATCCCCGAGCCGCCAGAGCCCAAGAGGAGGAAGTACGGCGGCATATCCACAGCCTCTGTA
GACTTCGAGCAGCCTACTCGGGACGGGCTGGGCAGTGACAACATTGGCAGTCGGATGCTGCAGGCCATGGGCTGG
AAAGAGGGCAGCGCCTGGGCCGCAAGAAGCAGGGCATTGTAACGCCTATCGAGGCCCAAAACAGGGGTGCGGGGC
TCCGGCCTGGGTGCACGGGGCAGCTCCTACGGGGTCACCTCAACCGAGTCTTACAAGGAGACACTGCACAAGACA
ATGGTGACCCGCTTCAACGAGGCCCCAGTGAGCAGCTTCAAGAGCAACTTCTCCACATGTTGGGTGTCCATCTGG
GGCAGGGAAGGACAGAGTGTGGATGGCTGGGACGGGGCCTTGCTCTTGTGGGCCAGCCCACTCCCCAGCCAGAG
AGGGCTTGACCAAAATCAAATTGAGGTGGTGACTTTTGTGGAAAATTGGGCTGGGATCACGTCTGTTTTGTAAT
AAAAGCTGAAAAGTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6166

MEYERRGGRDRTGRYGATDRSQDDGGENRSRDHDYRDMDYRSYPREYGSQEGKHDYDDSSSEEQSAEDSYEASPG
SETQRRRRRRHRHSP TGPPGFPRDGDYRDQDYRTEQEEEEEEEEEEEEKASNIVMLRMLPQAATEDDIRGQLQ
SHGVQAREVRLMRNKSSGQSRGFAFVEFSLQDATRWMEANQHSLNILGQKVMHYSDPKPKINEDWLCNKCQVQ
NFKRREKCFKCGVPKSEAEQKLPLGTRLDQOTLPLGGRELSQGLLPLPQPYQAQGVLASQALSQGSEPSSENAND
TIILRNLPNSTMDSILGALAPYAVLSSSNVRVIKDKQTQLNRGFAFIQLSTIVEAAQLLQILQALHPPLTIDGK
TINVEFAKGSKRDMASNEGSRIASAASVASTAIAAAQWAI SQASQGEGTWTATSEPPVDYSYYQQDEGYGNSQGT
ESSLYAHGYLKGTGPGITGTGKDPTGAGPEASLEPGADSVSMQAFSRAQPGAAPGIYQQSAEASSSQGTAANSQ
SYTIMSPAVLKSELQSPTHPSSALPPATSPTAQESYSQYPVPDVSTYQYDETS GYYYYDPQTGLYYDPNSQYYNA
QSQQYLYWDGERRTYVPALQESADGHKETGAPSKGKKEKKEKHKTKTAQQIAKDMERWARSLNKQKENFKNSFQP
ISSLRDDERRESATADAGYAILEKKGALAERQHTSMDLPKLASDDRPSPPRGLVAAYSGESDSEEEQERGPPER
EKLTDWQKLACLCLCRRQFP SKEALIRHQQLSGLHKQNL EIHRRHLSENELEALEKNDMEQMKYRDRAAERREKY
GIPEPPEPKRRKYGGISTASVDFEQPTRDGLGSDNIGSRMLQAMGWKEGSGLGRKKQGI VTP IEAQTRVRGSGLG
ARGSSYGVSTESYKETLHKTMVTRFNEAQ

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FIGURE 6167

TGGCGGCGGCGGACCCGGGGAAACCGGCATTGATCTCCAGCTCGCCGCTGTCCAAGAAACGTCGCGTGTCCGGGC
CTGATCCAAAGCCGGGTCTAACTGCTCCCCTGCCAGTCCGTGTTGTCCGAAGTGCCCTCGGTGCCAACCACG
GAATGGCCAAGAACGGCAGTGAAGCAGACATAGACGAGGGCCTTTACTCCCGGCAGCTGTATGTGTTGGGCCATG
AGGCAATGAAGCGGCTCCAGACATCCAGTGTCTGGTATCAGGCCTGCGGGGCCTGGGCGTGGAGATCGCTAAGA
ACATCATCCTTGGTGGGGTCAAGGCTGTTACCCTACATGACCAGGGCACTGCCAGTGGGCTGATCTTTCCTCCC
AGTTCTACCTGCGGGAGGAGGACATCGGTAAAAACCGGGCCGAGGTATCACAGCCCCGCCTCGCTGAGCTCAACA
GCTATGTGCTGTCACTGCCTACACTGGACCCCTCGTTGAGGACTTCCTTAGTGGTTTCCAGGTGGTGGTGCTCA
CCAACACCCCTTGAGGACCAGCTGCGAGTGGGTGAGTTCTGTCAACAACCGTGGCATCAAGCTGGTGGTGGCAG
GCACGCGGGGCTGTTTGGGCAGCTCTTCTGTGACTTTGGAGAGGAAATGATCCTCACAGATTCCAATGGGGAGC
AGCCACTCAGTGCTATGGTTTCTATGGTTACCAAGGACAACCCCGGTGTGGTTACCTGCCTGGATGAGGCCCGAC
ACGGGTTTGAGAGCGGGGACTTTGTCTCCTTTTCAGAAGTACAGGGCATGGTTGAACCTCAACGGAAATCAGCCCA
TGGAGATCAAAGTCTTGGGTCCTTATACCTTTAGCATCTGTGACACCTCCAACCTTCTCCGACTACATCCGTGGAG
GCATCGTCAGTCAGGTCAAAGTACCTAAGAAGATTAGCTTTAAATCCTTGGTGGCCTCACTGGCAGAACCTGACT
TTGTGGTGACGGACTTCGCCAAGTTTCTCGCCCTGCCAGCTGCACATTGGCTTCCAGGCCCTGCACCAGTTCT
GTGCTCAGCATGGCCGGCCACCTCGGCCCGCAATGAGGAGGATGCAGCAGAACTGGTAGCCTTAGCACAGGCTG
TGAATGCTCGAGCCCTGCCAGCAGTGCAGCAAAATAACCTGGACGAGGACCTCATCCGGAAGCTGGCATATGTGG
CTGCTGGGATCTGGCACCATAAACGCCTTCATTGGGGGCTGGCTGCCAGGAAGTCATGAAGCCTGCTCCG
GGAAGTTCACTGCCATCATGCAGTGGCTATCCTTTGATGCCCTTGAGTGTCTCCCTCAGGACAAAGAGGTCTCA
CAGAGGACAAGTGCTCCAGCGCCAGAACCTTATGACGGGCAAGTGGCTGTGTTGGCTCAGACCTGCAAGAGA
AGCTGGGCAAGCAGAAGTATTTCTTGGTGGGTGCGGGGCTATTGGCTGTGAGCTGCTCAAGAACTTGCCATGA
TTGGGCTGGGCTGCGGGGAGGGTGGAGAAATCATCGTTACAGACATGGACACCATTGAGAAGTCAAATCTGAATC
GACAGTTTCTTTTCCGGCCCTGGGATGTACGAAGTTAAAGTCTGACACGGCTGCTGCAGCTGTGCGCCAAATGA
ATCCACATATCCGGGTGACAAGCCACCAGAACCCTGTGGTCTGACACGGAGCGCATCTATGATGACGATTTT
TCCAAAACCTAGATGGCGTGGCCAATGCCCTGGACAACGTGGATGCCCGCATGTACATGGACCGCCGCTGTGTCT
ACTACCGGAAGCCACTGCTGGAGTCAGGCACACTGGGCACCAAGGCAATGTGCAGGTGGTGATCCCTTCTCTGA
CAGAGTCGTACAGTTCCAGCCAGGACCCACCTGAGAAGTCCATCCCCATCTGTACCCTGAAGAACTTCCCTAATG
CCATCGAGCACACCCTGCAGTGGGCTCGGGATGAGTTTGAAGGCCTCTTCAAGCAGCCAGCAGAAATGTCAACC
AGTACCTCACAGACCCCAAGTTTGTGGAGCGAACACTGCGGCTGGCAGGCACTCAGCCCTGGAGGTGCTGGAGG
CTGTGCAGCGCAGCCTGGTGTGCAGCGACCACAGACCTGGGCTGACTGCGTGACCTGGGCTGCCACCCTGGC
ACACCCAGTACTCGAACAACATCCGGCAGCTGCTGCACAACCTTCCCTCCTGACCAGCTCACAAGCTCAGGAGCGC
CGTTCTGGTCTGGGCCCAAACGCTGTCCACACCCGCTCACCTTTGATGTCAACAATCCCTGCATCTGGACTATG
TGATGGCTGCTGCCAACCTGTTTGGCCAGACCTACGGGCTGACAGGCTCTCAGGACCGAGCTGCTGTGGCCACAT
TCCTGCAGTCTGTGCAGGTCCCCGAATTCACCCCAAGTCTGGCGTCAAGATCCATGTTTCTGACCAGGAGCTGC
AGAGCGCCAATGCCTCTGTTGATGACAGTCGTCTAGAGGAGCTCAAAGCCACTCTGCCAGCCCAGACAAGCTCC
CTGGATTCAAGATGTACCCATTGACTTTGAGAAGGATGATGACAGCAACTTTTCATATGGATTTTCATCGTGGCTG
CATCCAACCTCCGGGCAGAAAATATGACATTCTTCTGCAGACCGGCACAAGAGCAAGCTGATTGCAGGGAAGA
TCATCCCAGCCATTGCCACGACCACAGCAGCCGTGGTTGGCCTTGTGTGTCTGGAGCTGTACAAGGTTGTGCAGG
GGCACCGACAGCTTGACTCCTACAAGAATGGTTTCTCAACTTGGCCCTGCCTTTCTTTGGTTTCTCTGAACCCC
TTGCCGACCCACGTCAACAGTACTATAACCAAGAGTGGACATTGTGGGATCGCTTTGAGGTACAAGGGCTGCAGC
CTAATGGTGAGGAGATGACCTCAAACAGTTCTCGACTATTTTAAAGACAGAGCACAAATTAGAGATCACCATGC
TGTCCAGGGCGTGTCCATGCTCTATTCTTCTTCATGCCAGCTGCCAAGCTCAAGGAACGGTTGGATCAGCCGA
TGACAGAGATTGTGAGCCGTGTGTGCAAGCGAAAGCTGGGCCGCCACGTGCGGGCGCTGGTGGTGGAGCTGTGCT
GTAACGACGAGAGCGGCGAGGATGTCGAGGTTCCCTATGTCCGATACACCATCCGCTGACCCCGTCTGCTCTCT
AGGCTGGCCCTTGTCCACCCCTCTCCACACCCCTTCCAGCCAGGGTTCCCATTTGGCTTCTGGCAGTGGCCCA
ACTAGCCAAGTCTGGTGTTCCTCATCATCCCTTACCTGAACCCCTCTTGCCACTGCCTTCTACCTTGTGTTGAA
ACCTGAATCCTAATAAAGAATTAATAACTCCCAAAAAAAAAA

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FIGURE 6168

MSSSPLSKRRVSGPDPKPGSNCSQAQSVLSEVPSVPTNGMAKNGSEADIDEGLYSRQLYVLGHEAMKRLQTSSV
LVSGLRGLGVEIAKNIILGGVKAVTLHDQGTAWADLSSQFYLRREEDIGKNRAEVSQPRLAELNSYVPVTAYTGP
LVEDFLSGFQVVVLNTPTLEDQLRVGEFCHNRGIKLVVAGTRGLFGQLFCDFGEEMILTDSNGEQPLSAMVSMVT
KDNPGVVTCLDEARHGFESEGDFVSFSEVQGMVELNGNQPMIEIKVLGPYTFSICDTSNFSYIRGGIVSQKVPKK
ISFKSLVASLAEPDFVVTDFAKFSRPAQLHIGFQALHQFCAQHGRPPRPRNEEDAAELVALAQAVNARALPAVQQ
NNLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVMAKACSGKFMPIMQWLYFDALECLPDQKEVLTEDKCLQRQNR
YDQQVAVFGSDLQEKLGKQKYFLVGAGAIGCELLKNFAMIGLGCGEIIVTDMDTIEKSNLNRQFLFRPWDVT
KLKSDTAAAVRQMNPHIRVTSHQNRVGPDTIRYDDDFQNLGVDANALDNVDARMYMDRRVCVYRKPLLESST
LGTKGNVQVVIPLTESYSSSQDPPEKSIPICTLKNFPNAIEHTLQWARDEFEGFLKQPAENVNQYLTDPKFVER
TLRLAGTQPLEVLEAVQRSVLQRPQTWADCVTWACHHWHTQYSNNIRQLLHNFPPDQLTSSGAPFWSGPKRCPH
PLTFDVNNPLHLDYVMAAANLFAQTYGLTGSQDRAAVATFLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSR
LEELKATLPSDPKLPGEFKMYPIDFEKDDDSNFHMDFIVAASNLRAENYDIPSADRHKSKLIAGKIIIPAIATTTAA
VVGLVCLLEYKVVQGHRQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQF
LDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRALVLELCCNDESGEDVEV
PYVRYTIR

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FIGURE 6169

CAGCTGCTGCTGCGGCGGCTGTGGCGGCGGCAGCGCGGTGACTGAGGATAGAGAGCCACAGCACGAGGAGCTGC
CAGGCCTGGACAGCCAGTGGCGCCAGATAGAAAACGGCGAGAGTGGGCGAGAACGTCCACTGCGGGCCGGCGAAA
GCTGGTTCCCTTGTGGAGAAGCACTGGTATAAGCAGTGGGAGGCATACGTGCAGGGAGGGGACCAGGACTCCAGCA
CCTTCCCTGGCTGCATCAACAATGCCACACTCTTTCAAGATGAGATAAACTGGCGCCTCAAGGAGGGACTGGTGG
AAGGCGAGGATTATGTGCTGCTCCCAGCAGCTGCTTGGCATTACCTGGTCAGCTGGTATGGTCTAGAGCATGGCC
AGCCACCCATTGAACGCAAGGTCATAGAGCTGCCAACATCCAGAAGGTCGAAGTGTACCCAGTAGAACTGCTGC
TTGTCCGGCACAATGATTTGGGCAAATCTCACACTGTTTCAAGTTCAGCCATACCGATTCTATTGGCCTAGTATTGC
GCACAGCTCGGGAGCGGTTTTCTGGTGGAGCCCCAGGAAGACACTCGGCTTTGGGCCAAGAACTCAGAAGGCTCTT
TGGATAGGTTGTATGACACACACATCACGGTTCTCGATGCGGCCCTTGAGACTGGGCAGTTGATCATCATGGAGA
CCC CGAAGAAAGATGGCACTTGGCCCAGCGCACAGCTGCATGTGATGAACAACAACATGTCGGAAGAGGATGAGG
ACTTCAAGGGTCAGCCAGGCATCTGTGGCCTCACCAATCTGGGCAACACGTGCTTCATGAACCTCGGCCCTGCAGT
GCCTCAGCAATGTGCCACAGCTCACCGAGTACTTCTCAACAACCTGCTACCTGGAGGAGCTCAACTTCCGCAACC
CACTGGGCATGAAGGGTGAGATCGCAGAGGCCTATGCAGACCTGGTGAAGCAGGCGTGGTCTGGCCACCACCGCT
CCATTGTGCCACATGTGTTCAAGAACAAGGTTGGCCATTTTGCATCCCAATTTCTGGGCTACCAGCAGCATGACT
CTCAGGAGCTGCTGTGCTTCTCTGGACGGGCTGCATGAGGACCTTAATCGGGTGAAGAAGAAGGAGTATGTGG
AGCTGTGCGATGCTGCTGGGCGACCGGATCAGGAGGTGGCACAGGAGGCATGGCAAAACCACAAACGGCGGAACG
ATTCTGTGATCGTGGACACTTTCCACGGCCTCTTCAAGTCCACGCTGGTGTGCCCCGATTGTGGCAATGTATCTG
TGACCTTCGACCCCTTCTGCTACCTCAGTGTTCCACTGCCTATCAGCCACAAGAGGGTCTTGAGAGTCTTCTTTA
TCCCCATGGATCCGCGCCGCAAGCCAGAGCAGCACCGGCTCGTGGTCCCCAAGAAAGGCAAGATCTCGGATCTAT
GTGTGGCTCTGTCCAAACACACGGGCATCTCGCCAGAGAGGATGATGGTGGCTGATGTCTTCAGTCACCGCTTCT
ATAAGCTCTATCAGCTAGAGGAGCCTCTGAGCAGCATCTTGGACCGTGATGATATCTTCGTCTATGAGGTGTCAG
GTCGCATTGAGGCCATTGAGGGCTCAAGAGAGGACATCGTGGTTCTGTCTACCTGCGGGAGCGCACCCCTGCCC
GTGACTACAACAACCTCTACTACGGCCTGATGCTTTTTGGACACCCCTCCTGGTATCAGTGCCCCGGGACCGCT
TCACCTGGGAGGGCCTGTATAACGTCTGATGTACCGGCTCTCAGCTACGTGACCAACCCAACTCAGATGATG
AGGACGATGGGGATGAGAAAGAAGATGACGAGGAGGATAAAGATGACGTCCCTGGGCCCTCAACTGGGGGACGCC
TCCGAGACCCTGAGCCAGAGCAGGCTGGGCCCAGCTCTGGAGTCACGAACAGGTGCCGTTCTCTCTGGACAATT
GCCTTGGCACATCTCAGTGGCCCCCAAGGCGACGACGCAAGCAGCTGTTTACCCTGCAGACGGTGAACCTCCAATG
GGACCAGCGACCGCACAACTCCCTGAAGAAGTCCATGCCAGCCGTACATTGCTATCGACTGGGAGCCAGAGA
TGAAGAAGCGTTACTATGACGAGGTAGAGGCTGAGGGCTACGTGAAGCATGACTGCGTGGGTACGTGATGAAGA
AGGCTCCCGTGC GGCTGCAGGAGTGCATTGAGCTCTTACCAGTGTGGAGACCCTGGAGAAGGAAAACCCCTGGT
ACTGCCCTTCTGCAAGCAGCACCCAGCTGGCAACCAAGAAGCTGGACCTGTGGATGCTGCCGGAGATTCTCATCA
TCCACCTGAAACGCTTTTCTACACCAAGTTCTCCCGAGAGAAGCTGGACACCCTCGTGGAGTTTCTATCCGGG
ACCTGGACTTCTCTGAGTTTGTATCCAGCCACAGAATGAGTCGAATCCGGAGCTGTACAAATATGACCTCATCG
CGGTTTCCAACCATTATGGGGCATGCGTGATGGACACTACACAACATTTGCCTGCAACAAGGACAGCGGCCAGT
GGCACTACTTTGATGACAACAGCGTCTCCCTGTCAATGAGAATCAGATCGAGTCCAAGGCAGCCTATGTCTCT
TCTACCAACGCCAGGACGTGGCGCGACGCCTGCTGTCCCCGGCCGGCTCATCTGGCGCCCCAGCCTCCCTGCCT
GCAGCTCCCCACCCAGCTCTGAGTTTATGGATGTTAATTGAGAGCCCTGGGTCTGCCACAGAAAAAAAAAAAAA
AAAGCCCTCTCTGCAATCTCGCTTCTCGTGTCCGCCCCGCTTCTCTTATTCTGTGTTAGGTGCCCCCGCCAGGCAT
TGCAGGCTTAGTCTGGCTACTGTTCTCTGTGCCGCTGCATCGCTCTCTCCGGGAAAGAACAGGTCGTGTCTC
CTCCTAGCAGTGC GCGCCCCGCTGTGTTTGCCTTCCAGCAGTGACCCTCCCTTCTAGTCTTTATTTATGGTCTG
TGCCCTTCCCTCTCCTCAGCCCAGAGTGTTCTGCGTGGGTGGTGTGGGGTTACCTGAACACAGAGTGTATTT
TCTTATTGAGGCCCTGTACCTTCTGCTGTGTGTGTATATATAAAGCACAGTCTGCTCCCC

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FIGURE 6170

TGACCCAATAAGGGTGGAAAGGCTGAGTCCCGCAGAGCCAATAACGAGAGTCCGAGAGGCGACGGAGGCGGACTCT
GTGAGGAAACAAGAAGAGAGGCCCAAGATGGAGACGGCGGGCGGTGTAGCGGCGTGACAGTGAAGCTGAGACCTT
GGCACTCAAGAGTGAGACAAGCAACAGGAGGGCCTGAGCAGAGAAGGAACCTGGAAGGACTTCAGATGTGAGCAGG
ATCTCTTGGACTGTGCTGTGAAAATTAGGCTGCAGGGGGCGACAGGAGCCTGGACTTTGAATTTTATTTTGTCCC
CTGCCACTTTGCTTCTAGACTATCATTATTGGACCTCTGAATTCCTGTCTGCGCTTCTGTAGGAGCCCCATGGCA
CCTGCCCAGCCCCACCTCAGCCCATCTTGACAAAATCTAAGGCTCCATGGAGCCACCACGGGGCCCCCCTGCCAA
TGGGGCCGAGCCATCCCGGGCAGTGGGCACCGTCAAAGTATACCTGCCCAACAAGCAACGCACGGTGGTGACTGT
CCGGGATGGCATGAGTGTCTACGACTCTCTAGACAAGGCCCTGAAGGTGCGGGGTCTAAATCAGGACTGCTGTGT
GGTCTACCGACTCATCAAGGGACGAAAGACGGTCACTGCCTGGGACACAGCCATTGCTCCCCTGGATGGCGAGGA
GCTCATTGTGAGGTCTTGAAGATGTCCCGTGACCATGCACAATTTGTACGGAAGACCTTCTTCAGCCTGGC
GTTCTGTGACTTCTGCCTTAAAGTTTCTGTTCCATGGCTTCCGTTGCCAAACCTGTGGCTACAAGTTCCACCAGCA
TTGTTCTCTCAAGGTCCCCACAGTCTGTGTTGACATGAGTACCAACCGCCAACAGCCCTCAAGGTCTACCACAG
TGTCAGGATTTGTCCGGAGGCTCCAGACAGCATGAGGCTCCCTCGAACCGCCCCCTGAATGAGTTGCTAACCCC
CCAGGGTCCCAGCCCCGACCCAGCACTGTGACCCGGAGCACTTCCCCTTCCCTGCCCCAGCCAATGCCCCCTT
ACAGCGCATCCGCTCCACGTCCACTCCCAACGTCCATATGGTCAGCACCACGGCCCCCATGGACTCCAACCTCAT
CCAGCTCACTGGCCAGAGTTTCAGCACTGATGCTGCCGGTAGTAGAGGAGGTAGTGATGGAACCCCCCGGGGAG
CCCCAGCCCAGCCAGCGTGTCTCGGGGAGGAAGTCCCAACATTCCAAGTCACCAGCAGAGCAGCGGAGCGGAA
GTCCTTGGCCGATGACAAGAAGAAAGTGAAGAACCTGGGGTACCGGGACTCAGGCTATTACTGGGAGGTACCACC
CAGTGAGGTGCAGCTGCTGAAGAGGATCGGGACGGGCTCGTTTGGCACCGTGTTCGAGGGCGGTGGCATGGCGA
TGTGGCCGTGAAGGTGCTCAAGGTGTCCCAGCCCCACAGCTGAGCAGGCCCAAGGCTTTCAAGAATGAGATGCAGGT
GCTCAGGAAGACGCGACATGTCAACATCTTGCTGTTTATGGGCTTCATGACCCGGCCGGGATTGGCCATCATCAC
ACAGTGGTGTGAGGGCTCCAGCCTCTACCATCACCTGCATGTGGCCGACACACGCTTCGACATGGTCCAGCTCAT
CGACGTGGCCCGGCAGACTGCCAGGGCATGGACTACCTCCATGCCAAGAACATCATCCACCGAGATCTCAAGTC
TAACAACATCTTCTACATGAGGGGCTCACGGTGAAGATCGGTGACTTTGGCTTGGCCACAGTGAAGACTCGATG
GAGCGGGGCCAGCCCTTGGAGCAGCCCTCAGGATCTGTGCTGTGGATGGCAGCTGAGGTGATCCGTATGCAGGA
CCCGAACCCCTACAGCTTCCAGTCAGACGTCTATGCCTACGGGGTTGTGCTCTACGAGCTTATGACTGGCTCACT
GCCTTACAGCCACATTGGCTGCCGTGACCAGATTATCTTTATGGTGGGCCGTGGCTATCTGTCCCCGGACCTCAG
CAAAATCTCCAGCAACTGCCCAAGGCCATGCGGCGCCTGTGTCTGACTGCCTCAAGTTCCAGCGGGAGGAGCG
GCCCCCTCTTCCCCAGATCCTGGCCACAATTGAGCTGCTGCAACGGTCACTCCCCAAGATTGAGCGGAGTGCCTC
GGAACCTCCTTGACCCGACCCAGGCCGATGAGTTGCCTGCCTGCCTACTCAGCGCAGCCCGCCTTGTGCCTTA
GGCCCCGCCCAAGCCACCAGGGAGCCAATCTCAGCCCTCCACGCCAAGGAGCCTTGGCCACCAGCCAATCAATGT
TCGTCTCTGCCCTGATGCTGCCCTCAGGATCCCCCATTCCCCACCCTGGGAGATGAGGGGGTCCCCATGTGCTTTT
CCAGTTCTTCTGGAATTGGGGGACCCCCGCCAAAGACTGAGCCCCCTGTCTCCTCCATCATTTGGTTTCCTCTTG
GCTTTGGGGATACTTCTAAATTTTGGGAGCTCCTCCATCTCCAATGGCTGGGATTTGTGGCAGGGATTCCACTCA
GAACCTCTCTGGAATTTGTGCTGATGTGCTTCCACTGGATTTTGGGGTTCACGACCCCATGTGGATTTTGG
GGGTCCCTTTTGTGCTCCCCCGCCATTCAAGGACTCCTCTCTTTCTTACCAAGAAGCACAGAATTCTGCTGG

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FIGURE 6171

MEPPRGPPANGAEPsRAVGTVKVYLpNKQRTVVTVRDGMSVYDSLDKALKVRGLNQDCCVVYRLIKGRKTVTAWD
TAIAPLDGEELIVEVLEDVPLTMHNFVRKTFFSLAFCDfCLKFLFHGFRcQTCGYKFHQHCSSKVP TVCVDMSTN
RQQPSRFYHSVQDLsGGSRQHEAPsNRPLNELLTPQGSPSPRTQHCDPEHFPPAPANAPLQRIrSTSTPNVHMVS
TTAPMDSNLIQLTGQSFSTDAAGSRGGSdGTPRGSPSPASVSSGRKSPHSKSPAEQRErKSLADDKKKVKNLGYR
DSGYWWEVPPSEVQLLKRIgTGSFGTVFRGRWHGDVAVKVLKVSQPTAEQAQAFKNEMQVLRKTRHVNILLFMGF
MTRPGFAIITQWCEGSSLYHHLHVADTRFDmVQLIDVARQTAQGMDYLHAKNIiHRDLKSNNIFLHEGLTVKIGD
FGLATVKTRWSGAQPLEQPSGSVLWMAAEVIRMQDPNPYSFQSDVYAYGVVLYELMTGSLPYSHIGCRDQIIFMV
GRGYLSPDLSKISSNCPKAMRRLSDCLKFQREERPLFPQILATIEllQrSLPKIERSASEPSLHRTQADELPAC
LLSAARLVP

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FIGURE 6172

CATCGCCGCAGATCCAGCGCCCAGAGAGACACCAGAGAACCCACCATGGCCCCCTTTGAGCCCCTGGCTTCTGGC
ATCCTGTTGTTGCTGTGGCTGATAGCCCCCAGCAGGGCCTGCACCTGTGTCCCACCCACCCACAGACGGCCTTC
TGCAATTCCGACCTCGTCATCAGGGCCAAGTTCGTGGGGACACCAGAAGTCAACCAGACCACCTTATACCAGCGT
TATGAGATCAAGATGACCAAGATGTATAAAGGGTTCCAAGCCTTAGGGGATGCCGCTGACATCCGGTTCGTCTAC
ACCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCACAACCGCAGCGAGGAGTTTCTCATTGCTGGA
AACTGCAGGATGGACTCTTGACATCACTACCTGCAGTTTTGTGGCTCCCTGGAACAGCCTGAGCTTAGCTCAG
CGCCGGGGCTTACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTCCTGTTTATCCATCCCCTGC
AACTGCAGAGTGGCACTCATTGCTTGTGGACGGACCAGCTCCTCCAAGGCTCTGAAAAGGGCTTCCAGTCCCGT
CACCTTGCCCTGCCTGCCTCGGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCGGTCCCAGATAGCCTGAATCCTG
CCCGGAGTGGAAGCTGAAGCCTGCACAGTGTCCACCCTGTTCCCACTCCCATCTTTCTTCCGGACAATGAAATAA
AGAGTTACCACCCAGC

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FIGURE 6173

ACATTGGGCTCCTCCTCCTCGGGCCACGTGAGCTGTAGGGAACGCAGGGGCGGCTTCTAGGTGCTGCCGCCGC
CACCGCCACCACCACCTCCACCGCCGCCTCGGAACCCAGGCCTGGGGGGCGGTGGGGCCGCGTATGGAGCCCCG
CCCCCGGAGCTGCCAACATTGCCAACGCCACCGCCACGCTACACACAGGTACCCCTGGGATGGCGTGAGCACTC
CCCCAGCGATGGACCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACA
TCATCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCCGGCTGTGGGGGC
TACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCCTTGCGGTACTACTATGACAAGAACATCA
TCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTACCCCTGAGGTCGCAGGGTGCTCCACTGAGG
ACTGCCCCGCCAGCCAGAGGTGTCTGTACCTCCACCATGCCAAATGTGGCCCCCTGCTGCTATACATGCCGCC
CAGGGGACACTGTCTCTGGAAGCCAGGCACACCCAAGGGTGCAGGAATGGCAGGCCAGGCAGGTTTGGCACGCA
GCAGCCGGAACGAGTACATGCGCTCGGGCCTCTATTCCACCTTCACCATCCAGTCTCTGCAGCCGCAGCCACCCC
CTCATCCTCGGCCTGCTGTGGTGTCTCCCACTGCAGCTCCTGCAGGGGCAGCAGCGCCCCCCTCGGGGAGCAGGA
GCACCACTCCAAGCCCCCTTGGAGGCCTGTCTGGAGGCTGAAGAGGCCGGCTTGCCCTGTCAGGTATCCTGACCC
CGCCCGAGGCCCAAACCTGAAATCGGAAGAGCTTAATGTGGAGCCGGGTTTGGGCCGGGCTTTGCCCCAGAAG
TGAAAGTAGAAGGGCCCAAGGAAGAGTTGGAAGTTGCGGGGGAGAGAGGGTTTGTGCCAGAAACACCAAGGCCG
AGCCAGAAGTCCCTCCACAGGAGGGCGTGCCAGCCCGGCTGCCCGCGGTTGTATGGACACCGCAGGGCAGGCGG
GCGGCATGCGGCTTCCAGCCCTGAGATCTCCAGCCGCAGAAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCAC
TCAGCCCGAGCCTGTAGGTGGGCCGGGACCCGAACGGACCCCAAGATCGGGAAGTGGCTCCGGCCTCCAGGCTC
CGGGGCCGGGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGTGCTC
CTCTAGCATTCACTTCTGGAGCACCCCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTTTC
CATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCCGTGGTGCTCTCCC
CAGGGCCCCAGAAGCCATGACTACTACCACCACCACCACCACCCCTTCTGGGGTCACTCCATCCATGCTCTCTCC
AGCCAGCCATCTCAAGGAGAAACATAGTTCAACTGAAAGACTCATGCTCTGATTGTGGTGGGTGGGGATCCTTG
GGAAGAATTACTCCCAAGAGTAACCTCTCATTATCTCTCCACAGAAACACACAGCTTCCACAACCTCTCTGTTT
TCTGTAGTCCCCCAGTGGCCGCCCTTACACGTCTCCTACTTCAATGGTAGGGGCGGTTTATTTATTTATTTTTT
GAAGGCCACTGGGAGGAGCCTGACCTAACCTTTTAGGGTGGTTAGGACATCTCCCCACCTCCCCACTTTTTTCC
CCAAGACAAGACAATCGAGGTCTGGCTTGAGAACGACCTTTCTTTCTTTATTTCTCAGCCTGCCCTTGGGGAGAT
GAGGGAGCCCTGTCTGCGTTTTTGGATGTGAGTAGAAGAGTTAGTTTGTTTTGTTTTATTATTCCTGGCCATACT
CAGGGGTCCAGGAAGAATTGTACCAATTAATGGGTTGGGAGTCTTGGCCAAGGAAGAAATCACACCCTTGAATA
GAAATTTCCACCTCCCCAACCTTTCTCTCAGACAGCTTATCCTTTTCAACCAACTTTTTGGCCAGGGAGGAATGT
CCCTTTTGTCTTCCCCCTGAGAAGCCATTCCCTTTGTCTGCCAACCTCCCTGGGGTCCCTGCCTGTTTCCCTCCAA
TGGAGGGTTTTTTTTGGGGGGTGGTCCCCGTCTGGGGGGCCCCCTCCAGCCAGTACTCCAGGTCTCCCTGTCTCTCC
CCCCTGCCATTTTGATAGTATAATCTATTTTTAAATGGGGCTTTTCAATAGGGGAGAGGGAGTCACTCTTCCCT
ATATTTGGTGGGTGGGTGGGAAGGAAGGGATTTGGGGGGGAATCTTCTGCCGCTCCCCACTCCAAGTGTTT
ATTTTTGATACCAACATGAATTTTCAGTTCCCTCCCTCCAGCCCCCAATTTCTGCGGGCGGGTACAAAGGA
CCCTTTCAATGTCCCTGGAGTTGGGAGGGAGGAATGGGGACATAAAGCCTGTCTGTCTCTATTCTAGGCAAGA
GAGAGTGGGTTCAAAAGACTCCTGGGCTCACCTGTTAGCGCTGGCCCAGCCAGGCCTTGGGACCTGGGGGTGG
TGATTTGGGGGACAGTGCTACACTCGTCTCCACTGTTTGTTTTACTTCCCCAAAATGGACCTTTTTTTTTTCTAA
AGAGTCCAGAGAATGGGAATTGTTCTGTAAATATATATTTTTTCAAAGTGA

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FIGURE 6174

CGGAAGCCGCGGTTCCCTACCAACCGTTCTTATTGCTGGCGGCCTGAGGAGCCCATCATGGCGACGCCCCCTAAGC
GGCGGGCGGTGGAGGCCACGGGGGAGAAAGTGCTGCGCTACGAGACCTTCATCAGTGACGTGCTGCAGCGGGACT
TGCGAAAGGTGCTGGACCATCGAGACAAGGTATATGAGCAGCTGGCCAAATACCTTCAACTGAGAAATGTCATTG
AGCGACTCCAGGAAGCTAAGCACTCGGAGTTATATATGACAGGTGGATTTGGGCTGTAACTTC'TTCGTTGACACAG
TGGTCCCAGATACTTCACGCATCTATGTGGCCCTGGGATATGGTTTTTTCCTGGAGTTGACACTGGCAGAAGCTC
TCAAGTTCATTGATCGTAAGAGCTCTCTCCTCACAGAGCTCAGCAACAGCCTCACCAAGGACTCCATGAATATCA
AAGCCCATATCCACATGTTGCTAGAGGGGCTTAGAGAACTACAAGGCCTGCAGAATTTCCCAGAGAAGCCTCACC
ATTGACTTCTTCCCCCATCCTCAGACATTAAAGAGCCTGAATGCCTTT

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FIGURE 6175

MATPPKRRAVEATGEKVLRYETFISDVLQORDLRKVLDHRDKVYEQ LAKYLQLRNVIERLQEAKHSELYMQVDLGC
NFFVDTVVPDTSRIYVALGYGFFLELTAEALKFIDRKSSLLTELSNSLTKDSMNIKAHIHMLLEGLRELQGLQN
FPEKPHH

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[illegible]

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FIGURE 6177

CCTGTTTTTGTGCTCCTCCGAGCTCGCTGTTTCGTCCGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAC TGCC
ATGTCCTCTGAAGAAGGAAAGCTCTTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCAC
TTCAGCAGTTTCGGACCTATCTCTGAGGGTGAGACGGGCCATACTCACAAATGGGGGTTGGTGAGAGAAAGTCTGG
GATCCTTGCAATTTCAAGGAGTATTAAGTGAAGGTTAGGACCCACGCCCTCCAAATTTCTTTTTCTTCCTAAGCCTA
TGGTGTAGACTAAGGATGAGGGGAAGCGTCTTTGGGATTAGTGGGAGCGCTCCGTTTTCCCTACCTATGCCATCT
CCTTTTCCGGCCACCCCTTTGCTACTTAACCTTTGGGGTACTGACTGGTCCACATTGCTCCATCTTCTCTCCCTCT
CACAGTGGTCTGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTTCATCACCTTCACCAACCCAGA
GCATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGGTGGGGCCTCCTATCTGCAGAGGGACCTTGTCCTCCATC
TGCGGCTTCCTTCATTCTTTTTGTTTTTCCCTCTGTGTCTGCTCGGGGCAGCGTGGCCACCAAGCCCCGAGTGC
CCACTCACAGGAGCATGACTGCCTTTTGTCTAGGGGGTGGAGGGCAGCGGCAGACAGAGCCTGGCCGCCTGGGA
GGCGACGACTGGTCTGCATGAGGCCGAGAAGCCACCTGTGGATGGTTGACCTGCCTTGGGCTTAGGTAGTAGAG
TCTGCAGACCTGTGGGCCTGGCCCGGAGAGGACCTCGTGAGTCTTCTGACATGGACTCTGAAGCCTCAAACCAAG
AGAGGTGTCTGTCTAGCCCTGATAGTCGGGCAGCTTAGAGGAGTGGGGAGGAGAACTCAGCCTGAGTTCAGTCAA
GATGTAAGTAGTAGCAAGGGGAACATGGTGCAATTCAGGTCAATTTGTGTGGGATTCTATAGCTCCTGATGAAGCC
ATTCTGGGGTAAAGGAGCTTATCTGGAACATGGCACCCAGAACCTGGTGCCAGCAGGAATTTTTGGCCTCTTT
TGCCCACTTACCTTGCTGCTCTTCCCTCACCATTTGCCCTGACTGACTGCCAACCCTATCATCTTGTGTCTCCC
ACACTTAGTCTCTGGATGGTCTGATCCGTGTGGATCATGCAGGCAAGTCTGCTCGGGGAACCAGAGGAGGTG
GCTTTGGGGCCCATGGGCGTGGTGCAGCTACTCTAGAGGTGGTGGGGACCAGGGCTATGGGAGTGGCAGGTATT
ATGACATCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGAGACTATAATGGCAGAAACCAGGGTGGTT
ATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACCTGAAATGAGACATGCACATAATATAGGTGAG
ACTTGGATATCGGCATTGAGTGAACCTGTTTGTACACTCTGTCTGACCTCTCACCTTTTCTGGCAAGACTGC
TCTGCATTTCTGCTGCCCTCATACCTCACCCAGCCAACCTACCAAACATTCTTAGCTAGGCCTTCCTTGCTCTCA
GGTGATATCAGAGCAAGTTTGCTAGGGGGTGGGATCTGAAAACCCATCTCCTATAATCTTCTACTCTTGTGTGG
GATGGAGGAAATGAAGGTGTGTCCCTGTTGTCCAACCCCTCAGCATCTTCATCAGCTCTAGGAGGTGAGCATGTTG
TCAGCTGTACTTCATGACATCACAAATTCCTCCCTCTTGTCTGTTCCAGATACACAAGGAATAATTTCTGATCC
AGGATCGTCTTCCAAATGGCTGTATTTATAAAGGTTTTTGGAGCTGCATGAAGCATCTTATTTTATAGTATAT
CAACCTTTTGTTTTTTAAATGACCTGCCAAGGTAGCTGAAGACCTTTTAGACAGTTCATCTTTTTTTTTTAAATT
TTTTCTGCCTATTTTAAAGACAAATTATGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTTACCAGTTTTTAGT
TTGAGCTCTTAGGTTTTATTGGAGCTAGCAATAATTGGTTCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAA
TGTGTATCCAGGGACATTTTAAAAACCTGTACACAGTGTTTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTA
TAAGAAATGTGCATCAAGCCAGCCTGACCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTG
GCATGGTGGTGTACGCTGTAATCCAGTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGG
AGGTTGCAGTGAGCTAAGATCGCGCCACTGTACTCCAGCCTGGGCAACAGCGAGACTCCATCTCAAAAAAAGG
AAATGTGTATCAAGAACATGATTATCCAGGGGTATTTTCTAATTCAGATCATCAAAGTATTATATAGAAGAGTT
GGCTTTAAATGTTTGCAAATGTCTTTTTTTTTTTAATACTGGAAGAAAAATATTCTGTTGTGTCTCATACAGT
GCTTAGGATGTCTTTCACAGAGCTTATTAAGAGATGAAACCTG

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FIGURE 6178

MAPRTWCPAGIFGLFCPLTLACSSLTIALTDCQPIILVSPTLSLWMVVRVSVWIMQASLLGEPEEVALGPMGVVAA
TLEVVGTRAMGVAGIMTVDLLEGMDMDMDVPETIMAETRVVMTATQEEITETIMTTEMRHAHNIGETWISALSEPV
CHTLS

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FIGURE 6179

TCTTGCCTGGAGCCTGAGAAAGGGAGGAGAGACAGAAGGAACCGGCGACAGTGGTCTCAGGGCCGCTCCGGGGGG
CCTCAAGAACCGGAGGCAGCCCCGAGGTGGTCCCCGATCCCGGGCTATGCTCTTGATCTGAGAAGGGAAGGCG
GAGGGCGGCGGGGACAAGATGGGTGGAGAAATGTCAAGCAAGGAATGCTAGGCGGGGGAGGGGCGTTGCTATGGCG
ACTGGGGAGGGGCGGTGTCTGTTCTGAATCGCTGTGTGTACCCGGGCGCTGCCAGGAAGGGCAGGGCTGGGGT
GATGACCATGGTAACACCCGGGTGGGAGTTTCGTGACATCTCCGGCGCGGAGGGACTCGATGTCTATGGCAATGGT
CGCCTGGTGGAAAGGGACGGAAGTAGATCCCTTCGCTCGGGACGCTCACATTCCAGGCCCTTGTCTGCAGGCTGC
CGCGGGCGGACACGCCAGAGGAGGAGGCCGGGGAATCGCCGCGGTGTGGCAGCAAGTCTTAGCAGTGGACGCGAG
GTACAACGCGTACCGCACACCAACGTTTCCACAGTTTCGGACGCGAGTATATCCGCCGGCGCAGCCAGCTGCTGCC
GGAGAATGCCAAGGCTGGGCACCCCCCAGCGCTGCGTCGGCAGTACCTGAGGCTTCGGGGGGCAGCTGCTGGGCCA
GCGCTACGGGCCCCCTCTCCGAGCCAGGCAGTGTCTGCTGCTATAGCAACAGCATCGTCCGCGAGTAGCCGCACTAC
TCTTGACCGCATGGAGGACTTTGAGGATGATCCTCGGGCCCTGGGGGGCCGTGGGCACCGTCTGTTCTGTCTAGCAG
AGGCTCCTACAGCTGCAGGCGCAGATGAACCGTGCCGTCTATGAGGACAGGCCCCCTGGCAGCGTGGTGCCAC
GTCAGCAGCAGAGGCAAGTCGGGCCATGGCCGGGGACACGTCACTGAGCGAGAACTATGCCCTTTCGGGCGATGTA
TCATGTTTTTGACCAGCACGTGGATGAGGCAGTCCCAAGGGTGCGCTTCGCCAATGATGACCGACACCGCCTGGC
CTGCTGCTCACTCGACGGCAGCATCTCCCTGTGCCAGCTGGTGCTGCCCCACCCACAGTGCTTCGCGTGCTACG
GGGCCACACCCGTGGTGTCTCCGACTTCGCCTGGTCCCTCTCCAATGACATCCTCGTGTCACCTCACTGGATGC
CACCATGCGCATCTGGGCCCTCTGAGGATGGTGTGCTGCTCCGAGAGATCCCTGACCCCGATAGCGCTGAACTGCT
CTGCTGCACCTTCCAGCCTGTCAACAACAACCTCACTGTGGTGGGGAAACGCCAAGCACAACTGTCATGTCAAGAA
CATCTCCACAGGCAAGAAAGTGAAGGGGGGCTCCAGCAAGCTGACAGGCCGTGTCTTGTCTGCTCTTGTCTTGTATG
CCCTGGCCGGCTGCTCTGGGCGGGTGATGACCGTGGCAGTGTCTTCTCTTTCTCTTTGATATGGCCACAGGGAA
GCTGACCAAAGCCAAGCGTTTGGTGGTGCATGAGGGGAGCCCTGTGACCAGCATCTCAGCCCGTCTGGGTGAG
CCGCGAGGCCCGGGATCCCTCACTGCTCATCAATGCTTGCCTCAACAAGTTGCTGCTCTACAGGGTGGTAGACAA
CGAGGGGACCCTGCAGCTGAAGAGAAGCTTCCCCATCGAGCAGAGCTCACATCCTGTGCGCAGCATCTTCTGTCC
CCTCATGTCTTCCGCCAGGGGGCCTGCGTGGTGACGGGCAGTGAGGACATGTGCGTGCACCTCTTTGATGTGGA
GCGGGCGGCCAAGGCTGCTGTCAACAAGCTGCAGGGCCACAGTGACCTGTGCTTGTGCTGCTCAACTGCGA
CGAGAGCCTACTGGCTCCAGTGACGCCAGCGGCATGGTTCATCGTCTGGAGGCGGGAGCAGAAGTAGGGTCTGT
CGGCCCTGCTGCTGCTCCATCCCACCCCTCTTACTCCAGCCTCGTGTTGTAATAAAGTTTCGGTGGTCAATGC
TGAGGGCGGCTCCCAGCTCTGCCGGGGACGGACAGGGCAGAGGGCAGCGGGCAGCTCCAGGAACACGGTGAAAA
AAAAAAA

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FIGURE 6180

MAAVWQQVLAVDARYNAYRTPTFPQFRTQYIRRRSOLLRENAKAGHPPALRRQYLRLRGQLLGQRYGPLSEPGSA
RAYSNSIVRSSRTTLDREDFEDDPRALGARGHRRSVSRGSYQLQAQMNRAVYEDRPPGSVVPTSAAEASRAMAG
DTLSSENYAFAGMYHVFDQHVDEAVPRVRFANDDRHRLACCSLDGSI SLCQLVPAPPTVLRVLRGHRTRGVSDFAW
SLSNDILVSTSLDATMRIWASEDGRCIREIPDPDSAELLCTFQPVNNNLTVVGNAKHNVHVMNISTGKKVKGGS
SKLTGRVLALSFDAPGRLLWAGDDRGSVFSFLFDMATGKLTAKRLVVHEGSPVTSISARSWVSREARDPSLLIN
ACLNKLLLYRVVDNEGTQLKRSFPIEQSSHVRSIFCPLMSFRQGACVVTGSEDMCVHFFDVERAAKAAVNKLQ
GHSAPVLDVSNFCDESLASSDASGMVIVWRREQK

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FIGURE 6181

GGGAGAGGAACAGGGCCCTGGAGCACCTGGTTTTCGGGACAGTAGGGTTGGTGGGAGTTGCGATGATATTGCCAC
CTACCTCTTACATCTTTTAGTGCGTATGTTCTGTCCACCCAGCTACTGGTTCATTTGAGTAGATCGGAGTCAGAT
GAGTACATGTTTACGGGAGGCGCTTGTTACGGGATCCAGATAGGAATCTTTATCTGAGCTGCTTGTCAGTTTGT
TCGTCTGTCCCTAGGTCTGTCTGCTATCAGCTATGCCGCTGCCCGTTGCGCTGCAGACCCGCTTGGCCAAGAGAG
GCATCCTCAAACATCTGGAGCCTGAACCAGAGGAAGAGATCATTGCCGAGGACTATGACGATGATCCTGTGGACT
ACGAGGCCACCAGGTTGGAGGGCCTACCACCAAGCTGGTACAAGGTTTCGACCCTTCTGCGGGCTCCCTTACT
ACTGGAATGCAGACACAGACCTTGTATCCTGGCTCTCCCCACATGACCCCACTCCGTGGTTACCAAATCGGCCA
AGAAGCTCAGAAGCAGTAATGCAGATGCTGAAGAAAAGTTGGACCGGAGCCATGACAAGTCGGACAGGGGCCATG
ACAAGTCGGACCGCAGCCATGAGAACTAGACAGGGGCCACGACAAGTCAGACCGGGGCCACGACAAGTCTGACA
GGGATCGAGAGCGTGGCTATGACAAGGTAGACAGAGAGAGAGCGGAGACAGGGAACGGGATCGGGACCGCGGGT
ATGACAAGGCAGACCGGGAAGAGGGCAAAGAACGGCGCCACCATCGCCGGGAGGAGCTGGCTCCCTATCCCAAGA
GCAAGAAGGCAGTAAGCCGAAAGGATGAAGAGTTAGACCCCATGGACCCTAGCTCATACTCAGACGCCCCCGGG
GCACGTGGTCAACAGGACTCCCCAAGCGGAATGAGGCCAAGACTGGCGCTGACACCACAGCAGCTGGGCCCCCTCT
TCCAGCAGCGGCCGTATCCATCCCCAGGGGCTGTGCTCCGGGCCAATGCAGAGGCCTCCCGAACCAAGCAGCAGG
ATTGAAGCTTCGGCCTCCCTGGCCCTGGGTTAAATAAAAGCTTTCTGGTGATCCTGCCCCACC

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FIGURE 6182

MPLPVALQTRLAKRGILKHLEPEPEEEIIAEDYDDDPVDYEATRLEGLPPSWYKVFDPSGLPYYWNADTDLVSW
LSPHDPNSVVTLSAKKLRSNADAEKLD RSHDKSDRGHDKSDRSHEKLDRGHDKSDRGHDKSDRDREREGYDKVD
RERERDRERDRDRGYDKADREEGKERRHHRREELAPYPKSKKAVSRKDEELDPMDPSSYS DAPRGTWSTGLPKRN
EAKTGADTTAAGPLFQQRYPYSPGAVLRANAEASRTKQQD

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FIGURE 6183

TTGATGTTTTCCAGTCATTCCGGCTGACAGCGTTCAAGTTGGAATCCTGGAGGGGAGGTGTTTTTCTGTCGTAC
GTGGGACAGGCCACGCTGTCCGTCCGCAGTACCGACGCTGCAGGTGAGAGCTTCGGGGAGAAAAGTGAAGAGCA
AGACGGAAGTACGGGGAGAAAAGGCTGGGAACAGGGTGTGCACTTTGACTGAAATTTGAGACGGAGGGCACC GG
AGGGCGAGCACTCGCCTGTGATTGGCCCGTGGGCGTCTGAGGTCCACGCAGCTGCTCAATTGGTTGGTGTG
CAATTGTTGTGGCGGCGGCGGCGGCGATTTTGCCACGTACTTCCGAGTAAGGGGCGGGGCTGTGCCCTGGCGCG
CGTGCGCAGCGCCCCGGGGCCCCACCCGGTAGTGCAAGAACCTGCGAGGGGGCGGAGCGAAGAGGTGCTTGT
GGTTCGTGTTTTCTTTGAAGCAGAAGGCCGGAACAAGCGTAGCAATAAACTTGCTGGACTTGAGAGAAGGCTAAG
ACAACTCGCCGCACTGCCCTTCATCTTGACTTTACATCCGGGTTCTCTCTCGGCGTGACCCGCGCGCCGCCAC
CGCCGCCGCCGCCGCCGCCGCCCTCCGCCGCCGAGGGTTCTCGAACCGGTGCCGCGATCCCTTTATCCGGGTC
TCGCCGTTCCCGTCGTGCCCTCGCGCACTACACTAGCCCCCTCATCCGGGTTCTCTCCCGGCGTGCCCCGCGCCGG
GTTTGTGGGGGGTACTCGGCAGTGCGCCATGACTATACTCCCCAAAAAGAAGCCGCCGCTCCCGACGCCGAC
CCGCCAACGAGCCGCCGCCGCCGCCGCCGCGGCGGATGCCCCGGCGCGCGCGCGCGGCGGAGGTGTGGGCGTGGGCGGC
GGCGGCACGGGCGTGGGCGGCGGCGGATCGCGACCGTGACTCCGGCGTCTGTGGGGGCCCCGTCCGCGAGCTTCGCCA
CCGCTCAAGGCCCGCTACCAGGACCGCGGGCGCTCTTCATCGCTGGGCGTGGCCGTGCCGCTGGTGCAGTG
GCGGGTCCCCGGCCACAACAGGCTTCTCCACCTCCTTGCGGGGGCCAGGTGGTCCCGGCGGCGGTCCCGGCGAC
GCGTGGGCGCAGCGGCGGCGGGTGTGGGTGCCGCGGGCGTGGTGGTGGTGTGGGTGGTGGCGTAGGCGTGGGC
GGCTGCTGCTCCGGGCGTGGGCACAGCAAGCGGCGACGTCAAGCTCCCGGGTTGGCGCGGTGGCGGGGCGAGT
CCCGAGCGTGAGGAGGTGCGCGCAGGCTACAACAGTGAGGACGAGTATGAGGCGGCTGCAGCACGCATCGAGGCT
ATGGACCCTGCCACTGTGAGCAGCAGGAGCATTGGTTTGAAAAGGCCCTACGAGACAAGAAGGGCTTCATCATC
AAGCAGATGAAGGAGGATGGCGCCTGTCTCTCCGGGCTGTAGCTGACCAGGTGTATGGAGACCAGGACATGCAT
GAGGTTGTGCGAAAGCATTGCATGGACTATCTGATGAAGAATGCCGACTACTTCTCCAACATATGTCACAGAGGAC
TTTACCACCTACATTAACAGGAAGCGGAAAAACAATTGCCATGGCAACCACATTGAGATGCAGGCCATGGCAGAG
ATGTACAACCGTCCTGTGGAGGTGTACCACTACAGCACAGAACCACATCAACACATTCCATGGGATACATCAAAAC
GAGGACGAACCCATTGCTGTTAGCTACCATCGGAATATCCACTATAATTGAGTGGTGAATCCTAACAAGGCCACC
ATTGGTGTGGGGCTGGGCGTCCCATCATTCAAACAGGGTTTGAGAGCAGTCTCTGATGAAGAATGCCATAAAA
ACATCGGAGGAGTCATGGATTGAACAGCAGATGCTAGAAGACAAGAAACGGGCCACAGACTGGGAGGCCACAAAT
GAAGCCATCGAGGAGCAGGTGGCTCGGGAATCCTACCTGCAGTGGTTGCGGGATCAGGAGAAACAGGCTCGCCAG
GTCCGAGGCCCCAGCCAGCCCCGGAAGCCAGCGCCACATGCAGTTCGGCCACAGCAGCAGCCTCCAGTGGCCTG
GAGGAGTGGACTAGCCGGTCCCCGCGGCAGCGGAGTTAGCCTCGTCACCTGAGCACCTGAGCTGCATGCTGAA
TTGGGCATGAAGCCCCCTTCCCCAGGCACTGTTTTAGCTCTTGCCAAACCTCCTTCGCCCTGTGCGCCAGGTACA
AGCAGTCAGTTCTCGGCAGGGGCCGACCGGGCAACTTCCCCCTTGTGTCCTCTACCTGCTTTGGAGTGCCGG
GCCCTCATTGAGCAGATGTCCCCCTCTGCCTTTGGTCTGAATGACTGGGAAGATAGACAAGAGGCACACAGAGAC
AGACCAACTGGCAGCCAGGCAGCCCCAGAGGAGAGAGACATTGAGACAGAGGAAAGTCTCCCTGCCCTCATTCC
TTCCAAGATGAGAAAAACTTGCCGCCACCCCCGACACTGATGCCAGGGAGGTGGGAGGAAGAAGTGGGAAATTT
CCCTTCCAGTACCCCCAAGACGTCTGAGCCTTCAATGTTGAATTTTTCTTTATTAAAATTACTTTTATCTTA
TAAATC

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FIGURE 6184

MTILPKKKPPPPDADPGGTGVGGGDRDRDSGVVGARPRASPPPQGPLPGPPGALHRWALAVPPGAVAGPRPQQAS
PPPCGGPGGGPGGGPGDALGAAAAVGGAAGVVVGAVGVGGCCSGPGHSKRRRQAPGVGAVGGGSPEREEVGAG
YNSEDEYEAAAARIEAMDPATVEQQEHWFEEKALRDKKGFIIKQMKEDGACLFRAVADQVYGDQDMHEVVRKHCM
YLMKNADYFSNYVTEDFTTYINRKRKNNCHGNHIEMQAMAEMYNRPVEVYQYSTEPINTFHGIHQNEDEPIRVSY
HRNIHYNVSVNPNKATIGVGLGLPSFKPGFAEQSLMKNAIKTSEESWIEQQMLEDKKRATDWEATNEAIEEQVAR
ESYLQWLRDQEKQARQVRGPSQPRKASATCSSATAAASSGLEEWTSRSPRQRSSASSPEHPELHAELGMKPPSPG
TVLALAKPPSPCAPGTSSQFSAGADRATSPLVSLYPALECRALIQQMSPSAFGLNDWEDRQEAHRDRPTGSQAAP
EERDIQTEESLPAPHSFQDEKNLPPPPDTDAREVGGRSKGFPFPVPPRTSEPSMLNFFFFIKITFIL

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FIGURE 6185

CTGGGTGTACAGCGTCCTCGAAACCACGAGCAAGTGAGCAGATCCTCCGAGGCACCAGGGACTCCAGCCCATGCC
ATGGCGGATTCTGAGCGCCTCTCGGCTCCTGGCTGCTGGGCCGCTGCACCAACTTCTCGCGCACTCGAAAGGGA
ATCCTCCTGTTTGCTGAGATTATATTATGCCTGGTGATCCTGATCTGCTTCAGTGCCTCCACACCAGGCTACTCC
TCCCTGTCGGTGATTGAGATGATCCTTGCTGCTATTTTCTTTGTTGTCTACATGTGTGACCTGCACACCAAGATA
CCATTCACTCAACTGGCCCTGGAGTGATTTCTTCCGAACCCTCATAGCGGCAATCCTCTACCTGATCACCTCCATT
GTTGTCCTTGTTGAGAGAGGAAACCACTCCAAAATCGTCGCAGGGGTACTGGGCCTAATCGCTACGTGCCTCTTT
GGCTATGACGCCTATGTCACCTTCCCCGTTCCGGCAGCCAAGACATACAGCAGCCCCCACTGACCCCGCAGATGGC
CCGGTGTAGGCGAACTTCCCTCATTTCTCTCTGCAATCTGCAAATAACTCCTCCATTGAAATAACTCCTCCCCAC
CCCAACAACAACATTCCCAGCAGACCAACTCCCACCCCTCTTTGAGGTAAAAGTGCCTTTATTGGGAGACTTTT
GTCTTCCAGCCTGCCAATCAACCTCCTGGGTGTGGCCACCATATGTGTGTGCCTAGGTCCCTCCTTCTGCACGAT
CCAATAGGAGACACCAGTTCTGACTGAACCATGCCCCACCTAAGTCACAAAATGAGGGAAGTGGGGAGTTAGAT
TTCAGAGTCCAGGCCCTAGGTTGGGACCCACTCCAAATAATCTCCTCGGTGTGGGTGGTGGTTCTATAGAGGGAT
AAATGAATAATAAACATTGTTAAATATAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6186

MADSERLSAPGCWAACTNFSRTRKGILLFAEIIILCLVILICFSASTPGYSSLSVIEMILAAIFFVVYMC DLHTKI
PFINWPWSDFFR TLIAAILY LITSIVVLVERGNH SKIVAGVLGLIATCLFGYDAYVTFFVRQPRHTAAP TDPADG
PV

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FIGURE 6187

GAGCACGGAGCAGGGTTTCTACAGCTGCTCCCCACTTTCTCGGACCCGGTCCTGGACCCAGCCCCGACTCCGAC
ACGGCTCCACCATCGGAGGAGGCGGACCGAATCCTCATCCATTGCTGCGCCAGGCCGGCACGGCAGTTCCTCCAG
ATGTGCAGACCTTGC GCGCCTTCACCACTGAGCTGGTTGTAGAGGCTGTGGTCCGCTGCCTGCGTGTGATCAACC
CTGCGGTGGGCTCTGGCCTCAGCCCTCTGCTGCCTCTTGCCATGTCTGCCCCGGTTCCGCCTGGCCATGAGCCTGG
CTCAGGCCTGCATGGACCTGGGCTATCCCTTGAGCTTGCTATCAGAACTTCTCTACCCAGTGAGCCTGACC
TCCGAGACCTGCTTCTCTTCTTGCTGAGCGTCTGCCACCGATGCCTCTGAGGATGCAGACCAGCCTGCAGGTG
ACTCAGCTATTCTCCTCCGGGCCATTGGGAGCCAAATTCGGGACCAGCTGGCACTGCCTTGGGTCCCGCCCCACC
TTCGCACTCCCAAGCTGCAGCACCTCCAGGGCTCGGCCCTCCAGAAGCCTTTCCATGCCAGCAGGCTGGTCTGTC
CAGAATTGAGTTCAGAGGTGAGCCACGGGAGTTCCAGGCGAGTCCCCTGCTGCTTCCAGTCCCTACCCAGGTGC
CTCAGCCTGTTGGAAGGTGGCCTCGCTCCTCGAACACCATGCCCTGCAGCTCTGCCAGCAGACGGGCGGGACC
GGCCAGGGGATGAGGACTGGGTCCACCGGACATCCCGCTCCACCCAGGAGGACACACGGGCTCAGCGGCAGC
GGCTGCAAAAGCAACTGACTGAGCATCTGCGCCAAAGCTGGGGCCTGCTTGGGGCCCCCATACAAGCCCCGGGACC
TGGGAGAACTGCTGCAGGCCTGGGTGCTGGGGCCAAGACTGGTGCTCCTAAGGGCTCCCGCTTACGCACTCAG
AGAATTACCTTCCATCTGGAGCCCCAGGCCACAGGCTCAGGTGTGAGATGTGCCAGCCACCTCCCGGCGGC
CTGAACAGGTACGTGGGCAGCTCAGGAACAGGAGCTCGAGTCCCTTCGGGAGCAGCTGGAAGGAGTGAACCGCA
GCATTGAGGAGGTTGAGGCCGACATGAAGACCCTGGGCGTCAGCTTTGTGCAGGCAGAGTCTGAGTGCCGGGCACA
GCAAGCTCAGTACAGCAGAGCGTGAGCAGGCCCTGCGCCTGAAGAGCCGCGCGGTGGAGCTGCTGCCCGATGGGA
CTGCCAACCTTGCCAAGCTGCAGCTTGTGGTGGAGAATAGTGCCAGCGGTCATCCACTTGGCGGGTCAGTGGG
AGAAGCACCGGGTCCCACTCCTCGCTGAGTACCGCCACCTCCGAAAGCTGCAGGATTGCAGAGAGCTGGAATCTT
CTCGACGGCTGGCAGAGATCCAAGAACTGCACCAGAGTGTCCGGGCGGCTGCTGAAGAGGCCCGCAGGAAGGAGG
AGGTCTATAAGCAGCTGATGTGAGAGCTGGAGACTCTGCCAGAGATGTGTCCCGGCTGGCCTACACCCAGCGCA
TCCTGGAGATCGTGGGCAACATCCGGAAGCAGAAGGAAGAGATCACCAGATCTTGTCTGATACGAAGGAGCTTC
AGAAGGAAATCAACTCCCTATCTGGGAAGCTGGACCGGACGTTTGCGGTGACTGATGAGCTTGTGTTCAAGGATG
CCAAGAAGGACGATGCTGTTTCGGAAGGCCTATAAGTATCTAGCTGCTCTGCACGAGAACTGCAGCCAGCTCATCC
AGACCATCGAGGACACAGGCACCATCATGCGGGAGGTTTCGAGACCTCGAGGAGCAGATCGAGACAGAGCTGGGCA
AGAAGACCCTCAGCAACCTGGAGAAAGATCCGGGAGGACTACCGAGCCCTCCGCCAGGAGAACGCTGGCCTCCTAG
GCCGGTCCGGGAGGCCTGAGGAGCCGCCGGCAGAGGTCTCTCCCCAGCCTCAGGCAGGGATTGGGGTGCTGGA
GGCAGTGGCCAAGCACATGCCCTAGCTACTTCTCCGCTGTCCAGTTCCTCCTGCTGCGGCCTTGACCCAGACC
CCTGCCCCACTGACCGCAACCCTTATATGGGGTGATAGTCCAGCAIGTGGGGAGCTCGGCTGCAGTTTATTGGGA
CGGTACTGTGGGTGGGGGCCCTTGATCCCAAATAAATGAGTAGTTCCTCTGC

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FIGURE 6188

MEEADRILIHSLRQAGTAVPPDVQTLRAFTTELVVEAVVRCLRVINPAVGSGLSPLLPLAMSARFRLAMSLAQAC
MDLGYPLELGYQNFLYPSEPDRLDLLFLAERLPTDASEDADQPAGDSAILLRAIGSQIRDQLALPWVPPHLRTP
KLQHLQGSALQKPFHASRLVPELSSRGEPREFQASPLLLPVPTQVPQPVGRVASLLEHHALQLCQQTGRDRPGD
EDWVHRTSRLPPQEDTRAQRQRLQKQLTEHLRQSWGLLGAPIQARDLGELLQAWGAGAKTGAPKGSRFTHSEKFT
FHLEPQAQATQVSDVPATSRRPEQVTWAAQEQELESLEQLEGVNRSIEEVEADMKTLGVSFVQAESECRHSLKLS
TAEREQALRLKSRAVELLPDGTANLAKLQLVVENSQRVHLAGQWEKHRVPLLAEYRHLRKLQDCRELESSRRL
AEIQELHQSVRAAAEEARRKEEVYKQLMSELETLPDVSRLAYTORILEIVGNIRKQKEEITKILSDTKELQKEI
NSLSGKLDRTFAVTDDELVFKDAKKDDAVRKAYKYLAALHENCSQLIQTIEDTGTIMREVRDLEEQIETELGKCTL
SNLEKIREDYRALRQENAGLLGRVREA

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FIGURE 6189A

GGGCTGCTGTGCTGGCAGCAGTAGGCGAGGGCGCGGCTGCGGGGTTCTTGGTGCTGAGGACGGACGCCATTGGAG
TTCCCGAGAAGATCCCGCCTCCCATGAATCCCGCCCCCTCCCCCTGCAGCTGCTTCACCCTCCCTCTCAGGCTG
AGCTCTCATCTCCCTGGGAGCCCGCAGCATGGCTGAGGGAAGCTTCAGCGTGCAATCGGAAAGCTACAGTGTGA
AGACATGGATGAGGGTAGCGACGAAGTCGGGGAGGAAGAGATGGTTGAAGGCAACGACTATGAAGAATTCGGTGC
GTTTGGTGGCTATGGCACCCCTACCAGCTTTGACATCCATATCCTCAGAGCCTTCGGAAGCTTGGGTCCAGGCCT
TCGCATCTTATCGAATGAGCCCTGGGAACCTGGAAAACCCCTGTGCTGGCCAGACCCCTGGTGGAGGCATTGCAGCT
GGATCCGGAACACTTGCCAATGAGACGGCCGCCCGTGTGCCAACGTAGCCCGCGCCGCCGCTCCAACCGTGC
GGCTCGGGCCGTGTCCGCCGTGCCGTACCGCCTTCAGTCAGGTGGTGCCTAGCCACCGGGTGCCACGCCCGCAG
GTCTCAGGAGAGGATACCCAGCCACGACCTACGCCGCCGAGGTGAGGGGCCACCCCTGAGCACCCCTTGCTTC
TCCGCAGACCTCCAGATGTTAGTCACCAGTAAGATGGCTGCCCCGAGGCTCCGGCAACCTCCGCACAGTCCCA
GACAGGCTCCCCGGCCAGGAGGCTGCTACTGAGGGCCCTAGTAGCGCTGTGCTTTCTCTCAGGCTCCGTGTGC
CAGGGAGGTGGACGCCAACCGGCCAGCACAGCCTTCCTGGGCCAGAATGATGTCTTCGATTTCACTCAGCCGGC
AGGTGTAGTGGCATGGCCTTCCCGCGCCCCAAGAGACCTGCCCCAGCCCAAGAGGCTGCCACAGAGGGCCCCAG
TGCTGCCTCTGGTGTGCCCGAGCGGGACCTGGCAGGGAGGTGGCAGCCACCCGGCCCAAGACCACCAAGTCGGG
GAAGGCGCTGGCCAAGACTCGGTGGGTGGAGCCTCAGAATGTTGTGGCAGCAGCTGCTGCCAAGGCCAAGATGGC
CACGAGCATCCCTGAGCCGGAGGGTGCAGCTGCTGCCACTGCTCAGCACAGTGTGAGCCCTGGGCCAGGATGGG
AGGCAAGAGGACCAAGAAGGTGAGAGGGGATCCXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXCCTAGTCTGTGGGCAT
CCCTTGTCTGCGTGCCACGGCTGGTCCCTCCATAGCCACAGGACGGGTCTGGCTGCGTACCCCTCGGCAGAG
CTTGACCAAGGGGTACAGCTCTATGACCCCTGCTCAGCCCAGGTGCTTTCTCCAACCTCTTCCCCCTCCTGCAGA
CATGCTGAAGGATGTATCAGAGAATATGATGAACATTTCCCTGAGATCATTGAACGAGCAACGTACACCCCTGGA
AAAGGTGGGTGCAGGATGGGAGCAGCTCTGTGGGGGAAGAGCGGGCATGGGGGTGCGGTGACCCCTGCAGCCCCCTC
AAGGCCAGTCTCTGGAGCCATCTCTACCTCTCCGACTCTGAGCTTCCACTGCACTGGCAGTTTGACTCGTGCT
TCTGCCCCTCGGCTTCTCTCTCTCATGCTCTCTGAGTGTCTCGCCGTCTGGCCAGGTGGGTCTCATCGCCTCTGC
CAGCGTCAGCTCCACAGCGAAGGTCTTCCGTGTGCTGTCTTCTTCTGCCCTCGCTCACGAGTTTGGATTCCCTG
CTGAGGAGCAGTTCTAACCCGGAATCACTGTCTGCCGGCAGGATGCCAGCATGGGGTTTGGATCTCACACTCTGT
TTTCTCCCCACGTAGAAAGTTTGGGATCCACCTGAAGGAGATCGACAAGGAAGAACACCTGTATATTCTTGTCTG
CACAGGGGACTCCTCAGCTCGCCTCCTTGAAAGTAAGAAGGACACTCCCGAGGCTGATCTCTTGTGTGATCTC
GGCGTATCTTTCATGAATGGCAACCGTGCCAGCGAGGCTGTCTCTGGGAGGCACTACGCAAGATGGGACTGCGC
CCTGGGTATGATTGGCCTCTCCAGCTCCTCCCCCTCGGTGCTATCCTCTGGCCAAAGAGGCTCTGGGATTGCAATA
GCCTGGTGGTCTGGCGCAAGGGCGTGGGGTGCTGGGCTCGGTAGAGAGCAAGGATCTCACAGGGCGGATGGG
GAAGCGGTGCTGGACGCTGCTCAGCCCTCTCTCTGCTCTGTGGCCCCAGATGACATCTAAGAGAGACGATCAGAG
TCAGGGATTCCATCAAATCCCTACCTGGGGCGTCCCTGACCAACAGTCCTCTGGCCTCTGCTGCATGCCAGGCC
TCCACAGCGACTCCCCGGGGGCTGGGAAGTCATAGTCATGCTAGGGAGGGCCCCCTGCCACCGTCTCTGCTCATGG
ATTCTTTCTTGGCCTCAGGGTGAGGCACCCATTCTCGGCGATCTGAGGAAGCTCATCACAGATGACTTTGTG
AAGCAGAAGTAAGTATCACCTGAGCTAACTGCGGCTCTCACTCGAGCATCCTTTGTGTGCTGGTCTGGCTGAGAA
AGCAGTTCCCTATCCCAAATCTTCAACTGGAGGGATGGGTGCCTCTGACCTGGGAGTGAGTGGCAGTGGGGGGTA
TGCGAGTGTGTGGGGACCGAAGGCCAGGGCGGTCTTGGGAAAAGGGAGCTCACGTACCTGAGAACACGGTGTGG
GGTGTGAAAACGGCCGCCATCACCTTGAGCACCTGCCCTGTAGACTGACACAAGAGTTCCCCCTGGTTTACACCT
AAGGAACCCGGAGCTCAGAGAGGAGACGCTCTGAGCATGGCTCCAGCTGGTAAGGGCCTCAGCCCAACTCTCC
TGATTTTTCAGGCCAGGGGCCACCCCTCTCCCCGTCCCTGGAGGACTTGCCAACGCACAGGCGCGCATGCACACCAA
CAAAGGGTCAGGACTTGAGGAGGATGCCTGGAGCACGCTTCTCCTGGCTGACTGTTTCTTCTCTCCAGTCGTTT
CCTCTGGTGGGCTCTCCAGGGCTCCGCCGGGTGTGGCCAAGACCCTCGAGGTGGGGTGTGCTCAGAGCAGGGG
GCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAAGCTGGGGTCACTGATGAGGGGACAAAATT
GTGGCCTCCCTACAGACAAATGCCCTACATGTGGACCCCTGCACCTCCGCATGGCTTCCGGGGAGGACCAATGG
CAAAGGCTTTGAAGGCCTCACTTTTGAGGCAGAAGTCTGGGAGTGGGTTTGGGAATGAGTGAAGGGCTGGAG
GGGCAGGACAGTCTCTCCAGGAGCTGAGCTGCGGCATCGGGTTGAGGAGGGGCCCCCTGGAACCCATCCGTTT
AGCAACAGGTCTGCTTGGCTAGCAGCAAAGTTTACTTTCTCTCATGCCAAGGTACCTGGAATACAAGAAGATCC

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FIGURE 6189B

CCAACAGCAACCCACCTGAGTATGAATTCCCTCTGGGCCTCGAGCCCGCCATGAGACCAGCAAGATGAGGGTCCTG
AGATTTCATCGCCCAGAATCAGAACCGAGACCCCCGGGAATGGAAGGCTCATTTCCTGGAGGCTGTGGATGATGCT
TTCAAGACAATGGATGTGGATATGGCCGAGGAACATGCCAGGGCCCAGATGAGGGCCCAGATGAATATCGGGGAT
GAAGCGCTGATTGGACGGTGGAGCTGGGATGACATACAAGTCGAGCTCCTGACCTGGGATGAGGACGGAGATTTT
GGCGATGCCCTGGGCCAGGATCCCCCTTGCTTTCTGGGCCAGATACCATCAGTACATTCTGAATAGCAACCGTGCC
AACAGGAGGGCCACGTGGAGAGCTGGCGTCAGCAGTGGCACCAATGGAGGGGCCAGCACCAGCGTCCTAGATGGC
CCCAGCACCAGCTCCACCATCCGGACCAGAAATGCTGCCAGAGCTGGCGCCAGCTTCTTCTCCTGGATCCAGCAC
CGTTGACGAACTGCAGCGATCTTACTGGCCAAGCCAGAGCGCCTCCTCTCAGATTCCCTTCTCGACACAGCACCCCT
AGGCGGCTTCTTCTGTGTCAGTCGGAGGTGGCATGCAAGATGAAGCTCTCTTTGCTCTTCTGCTTTTCATTTTGTG
CTTTTCCTTGIGTTTTTCATGTTTTGGGTATCAGTGTTACATTAAAGTTGCAAAATTAA

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FIGURE 6190

CCCATCCCGTGGGTGGCCGGCGACAAGATGGCAGCAGCGTGTGGGAGCGTGAAGGGCCTGGTGGCGGTAATAACC
GGAGGAGCCTCGGGCCTGGGCCTGGCCACGGCGGAGCGACTTGTGGGGCAGGGAGCCTCTGCTGTGCTTCTGGAC
CTGCCCCAACTCGGGTGGGGAGGCCCAAGCCAAGAAGTTAGGAAACAACCTGCGTTTTTCGCCCCAGCCGACGTGACC
TCTGAGAAGGATGTGCAAACAGCTCTGGCTCTAGCAAAAAGGAAAGTTTGGCCGTGTGGATGTAGCTGTCAACTGT
GCAGGCATCGCGGTGGCTAGCAAGACGTACAACCTTAAAGAAGGGCCAGACCCATACCTTGGGAAGACTTCCAGCGA
GTTCTTGATGTGAATCTCATGGGACCTTCAATGTGATCCGCCTGGTGGCTGGTGAGATGGGCCAGAATGAACCA
GACCAGGGAGGCCAACGTGGGGTCATCATCAACACTGCCAGTGTGGCTGCCTTCGAGGGTCAGGTTGGACAAGCT
GCATACTCTGCTTCCAAGGGGGGAATAGTGGGCATGACACTGCCCATTGCTCGGGATCTGGCTCCCATAGGTATC
CGGGTGATGACCATTGCCCCAGGTCTGTTTGGCACCCCACTGCTGACCAGCCTCCCAGAGAAAGTGTGCAACTTC
TTGGCCAGCCAAGTGCCCTTCCCTAGCCGACTGGGTGACCCTGCTGAGTATGCTCACCTCGTACAGGCCATCATC
GAGAACCCATTCCCTCAATGGAGAGGTTCATCCGGCTGGATGGGGCCATTTCGTATGCAGCCTTGAAGGGAGAAGGCA
GAGAAAACACACGCTCCTCTGCCCTTCCCTTCCCTGGGGTACTACTCTCCAGCTTGGGAGGAAGCCCAGTAGCCA
TTTTGTAAGTGCCTACCAGTCGCCCTCTGTGCCTAATAAAGTCTCTTTTTTCTCACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6191

MAAACRSVKGLVAVITGGASGLGLATAERLVQGASAVLLDLPNSGGEAQAKKLGNNCVFAPADVTSEKDVQTAL
ALAKGKFGRVDVAVNCAGIAVASKTYNLKKGQHTLEDQFQVLDVNLMTFNVIRLVAGEMGQNEPDQGGQRGVI
INTASVAAFEGQVGQAAYSASKGGIVGMTLP IARDLAPIGIRVMTIAPGLFGTPLLTSLEKVCNFLASQVPFPS
RLGDPAEYAHLVQAI IENPFLNGEVIRLDGAIRMQP

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FIGURE 6192A

GCCTGTCTACTGCCGCCGGCGCCGCCGGCCGTCAATGGGGTTCTGAACTGATTGAGATTGAGAACTTTAAGTCG
TACAAGGGTCGACAGATTATCGGACCATTTCAGAGGTTACCGCCATCATTGGACCCAATGGCTCTGGTAAGTCA
AATCTCATGGATGCCATCAGCTTTGTGCTAGGTGAAAAAACCAGCAACCTGCGGGTAAAGACCCTGCGGGACCTG
ATCCATGGAGCTCCTGTGGGCAAGCCAGCTGCCAACCGGGCCTTTGTGAGCATGGTCTACTCTGAGGAGGGTGCT
GAGGACCGTACCTTTGCCCGTGTCAATTGTAGGAGGTTCTTCTGAGTACAAGATCAACAACAAAGTGGTCCAACCTA
CATGAGTACAGTGAGGAATTAGAGAAGTTGGGCATTCTCATCAAAGCTCGTAACTTCCTCGTTTTCCAGGGTGCT
GTGGAATCTATTGCCATGAAGAACCCCAAGAGAGGACAGCTCTATTTGAAGAGATTAGTCGTTCTGGGGAGCTG
GCGCAGGAGTATGACAAGCGAAAGAAGGAAATGGTGAAGGCTGAAGAGGACACACAGTTTAATTACCATCGCAAG
AAAAATATTGCGGCTGAACGCAAGGAAGCAAAAGCAGGAGAAAGAAGAGGCTGACCGGTACCAGCGCTGAAGGAT
GAGGTAGTACGGGCTCAGGTACAGCTGCAGCTCTTTAAGCTTTACCATAATGAAGTGGAAATTGAGAAGCTCAAC
AAGGAACGGCCTCAAAGAACAAGGAGATCGAGAAGGACAAGAAGCGTATGGACAAGGTGGAGGATGAAGTGAAG
GAGAAGAAGAAGGAGCTGGGCAAAATGATGCGGGAGCAGCAGCAGATTGAGAAGGAGATCAAGGAGAAGGACTCA
GAATTGAACCAGAAGCGGCCTCAGTACATCAAAGCCAAGGAGAACACCTCCCAAAAATCAAGAAGCTGGAAGCA
GCCAAGAAGTCTCTGCAGAATGCTCAGAAGCACTACAAGAAGCGTAAAGGTGACATGGATGAGCTGGAGAAGGAG
ATGCTGTGAGTGGAGAAGGCTCGGCAGGAGTTTGAAGAACGGATGGAAGAAGAGAGTCAGAGTCAGGGCAGAGAT
TTGACGTTGGAGGAGAATCAGGTGAAGAAATACCACCGGTTGAAAGAAGAAGCCAGCAAGAGAGCAGCTACCCTG
GCCAGGAGCTGGAGAAATCAATCGAGACCAGAAAGCTGACCAGGACCGTCTGGATCTGGAAGAACGGAAGAAA
GTAGAGACAGAGGCCAAGATCAAGCAAAAGCTGCGGGAATTTGAAGAGAATCAGAAGCGGATTGAGAACTGGAG
GAATACATCACCCTAGCAAGCAGTCCCTAGAAGAGCAGAAGAAGCTAGAGGGGGAGCTGACAGAGGAGGTGGAG
ATGGCCAAGCGGCGTATTGATGAAATCAATAAGGAGCTGAACCAGGTGATGGAGCAGCTAGGGGATGCCCGCATC
GACCGCCAGGAGAGCAGCGCCAGCAGCGAAAGGCAGAGATAATGGAAGCATCAAGCGCCTTTACCCTGGCTCT
GTGTACGGCCGCTCATTGACCTATGCCAGCCACACAAAAGAAGTATCAGATTGCTGTAACCAAGGTTTTGGGC
AAGAACATGGATGCCATTATTGTGGACTCGGAGAAGCAGGCGGGACTGTATTAGTATATCAAGGAGCAGCGT
GGGGAGCCTGAGACCTTCTTGCCCTTTGACTACCTGGAGGTGAGCCTACAGATGAGAACTCCGGGAGCTGAAG
GGGGCCAAGCTAGTGATTGATGTGATTGCTATGAGCCACCTCATATCAAAAAGGCCCTGCAGTATGCTTGTGGC
AATGCCCTTGTCTGTGACAACGTGGAAGATGCCCGCCGATTGCCCTTGGAGGCCACCAGCGCCACAAGCAGTG
GCACTGGATGGAACCCCTATTCCAGAAGTCAGGAGTGATCTCTGGTGGGGCCAGTGACCTGAAGGCCAAGGCACGG
CGCTGGGATGAGAAAAGCAGTAGACAAGTTGAAAGAGAAGAAGGAGCGCTTGACAGAGGAGCTGAAAGAGCAGATG
AAGGCAAAACGGAAAAGAGGCAGAGCTGCGTCAGGTGCACTCTCAGGCCCATGGACTGCAGATGCGGCTCAAGTAC
TCCCAGAGTGACCTAGAACAGACCAAGACACGACATCTAGCCCTGAATCTGCAGGAAAAATCCAAGCTGGAGAGT
GAGCTAGCCAACTTTGGGCCTCGCATTAATGATATCAAGAGGATCATTGAGAGCCGAGAGAGGGAAATGAAAGAC
TTGAAGGAGAAGATGAACCAGGTAGAGGATGAGGTGTTTTGAAGAGTTTTGTGCGGAGATTGGTGTGCGCAACATC
CGGGAGTTTGAGGAAGAAAAGGTGAAACGGCAGAATGAAATCGCCAAGAAGCGTTTGGAGTTTGAGAAATCAGAAG
ACTCGCTTGGGCATTGAGTTGGATTTTGAAGAAGAACCACTGAAGGAGGACCAAGATAAAGTACACATGTGGGAG
CAGACAGTGAAAAAAGATGAAAATGAGATAGAAAAGCTCAAAAAGGAGGAACAAAGACACATGAAGATCATAGAT
GAGACCATGGCTCAGCTACAAGACCTGAAGAATCAGCATCTGGCCAAGAAGTCGGAAGTGAATGACAAGAATCAT
GAGATGGAGGAGATTGTAAGAACTCGGGGGCGCCAACAAGGAAATGACCCATTTACAGAAGGAGGTGACAGCC
ATTGAGACCAAGCTTGAACAGAAGCGCAGTGACCGTCACAACCTTGCTACAGGCCGTGAAGATGCAGGACATTAAG
TTGCCACTGTCAAAAGGCACCATGGATGATATTAGTCAGGAAGAGGGTAGCTCCAGGGGGAGGACTCAGTGAGT
GGTTCACAGAGAATTTCCAGTATCTATGCACGAGAGGCCCTCATTGAGATTGACTACGGTGATCTGTGTGAGGAT
CTGAAGGATGCCAGGCTGAGGAAGAGATCAAGCAAGAGATGAACACACTGCAGCAGAAGCTGAATGAGCAGCAG
AGTGTGCTTCAGCGTATTGCCGCCCCCAACATGAAGGCCATGGAAGAAGCTGGAAAGTGTCCGAGACAAGTTCCAG
GAGACCTCAGATGAGTTTGAAGCAGCCGAAAGCGAGCAAGAAGGCCAAGCAGGCATTGGAACAGATCAAGAAG
GAGCGCTTGACCGCTTCAATGCTTGTGTTTTGAATCTGTGGCTACCAACATTGATGAGATCTATAAGGCCCTGTCC
CGCAATAGCAGTGCCAGGCATTCTGGGCCCTGAGAACCCTGAAGAGCCCTACTTGGATGGCATCAACTACAAC
TGTGTGGCTCCTGGGAAACGCTTCCGGCCTATGGACAACCTGTGAGGCGGGGAGAAGACAGTGGCAGCTCTGGCC
CTGCTCTTTGCCATCCACAGCTACAAGCCAGCCCCCTTCTTCGTCCTGGATGAGATTGATGCTGCCCTGGATAAC
ACCAACATTGGCAAGGTGGCAAATTACATCAAGGAGCAGTCGACTTGCAACTTCCAGGCCATCGTCATCTCTCTC

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FIGURE 6192B

AAGGAGGAGTTCTACACCAAGGCCGAGAGCCTCATTGGAGTCTATCCTGAGCAAGGGGACTGTGTGATCAGCAAA
GTCCTGACCTTCGACCTCACCAAGTACCCAGATGCCAACCCCAACCCCAATGAGCAGTAGCAGTATTTTTGCCCT
CCCGCCCTGTCTGGATCCCTAAGCTGTCCCTCTCCCAATCTCTGGATATTTGACTCCCAACCTTCCCCCTACCTC
CTGGCCCTTTTTGGTGTAGTCATGGGATTTAGGCACTGCTAATCAAGCATGAAGAGGAACAGAGGTGATGTTAGG
TCTGGAGCAAAAATTCCTGAACGACAGGGAGTATTCTGGCCTCTGAAAGGAGGTGCTGAGCTGAACAGGGCCATC
TGTTTCATCACACACACCCCTTCCTCCCCCTCATCACCCATAATCGTGGGCCCTTGGGCCCTCTTGCCCACTGTG
TGTGTGGGTATGTATGTGTGTATGTATGTATCCGCATGTGTGCATGTGAGTATGTTTGCAAAATAATAAAGGATA
TTGGAGACCTGTTTTAGAAGGAGCCTAGGCTGAATTTGATTCCAAGAGAGCTTAGGATGACAGCACCCCTGAGCT
GGGCAAAGGTACTCAGGACCTCATAGGAGTCTTAGGCAGTTACCTGAAACTGCCTTCATTCACTCATTGTGTAT
TCATTCATTTATGTATTCATCAGACACATAACCGAACCCCTCTATTTGTCAGGCTCTGTGCTTGGAATACAGAGT
TGAATCAGACATGATCTCTACCCTCCTAGTAAGGAGATACAGTGGGTTCATGAATGACTATAGTTAGCTGAATGT
CATATGTACTTTGAATTTGAGAAGTGGGTGATCCCCTCTAGGCTTCCTGGAGGTCACATTTAAGCTAGACCTTGA
CAAATTGGTAGGATTTGGTCAGGCACTAGGAGTGGAGCATGAGCTCTGGGGACAGACAGTTATGGGTTCTGGTCC
CACTTTTTATCACTTACTAGTTGTTTGACCTTGGGCAAGTCATTTGACCTTCTGTGCCTCAGTTTCCTCATCTGT
AAAATGGGGCTAACAATATTACCTACCTCATTAGGATTTAATGATGTCAAGCTCCTCACTGGAGGCCTTATCCCTT
CGTGGAGCCCACTAGGTGCCGACCCCTCAGAATATAACCCCTCATGCCTGGACCCCTGAGAGCTTCTGATCCCAGC
TATTAGGGACAGAAGAAGCCTCCAAATCTGGAAGGTGCTGAATGCCCTGCTGACTGGGAAAGTTTCAGGGCACTG
ATGGGGTCTACCTGGTAAGCGGAGGGCCTGAGGAAACCTGTAGCTTCAATCATGTCTGGTAACCGGGTGCCTGAG
CCCCAATCTGGGTTGTGAGGAAATAGGGGAGAGGTATCCTGGGCCACATCCCAGCCTAACACCTGTGAGGTTCAI
TTTAGGAATAACCTCATTAGCTATAAGGATCATGCAGAGGCAGCAAAGCCGGGTGCGATGAGCTCAGCCTTTAC
TCATTCACATACACCATCACACTTTAATTCCAATCTGTATATTGCTTTTTAAAAGTTAAGTCCATTCTAATTACC
CAAATATGCATGAATTC

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FIGURE 6193

MGFLKLIEIENFKSYKGRQIIGPFQRFRTAIIGPNGSGKSNLMDAISFVLGEKTSNLRVKTLRDLIHGAPVGKPAA
NRAFVSMVYSEEGAEDRTFARVIVGGSSEYKINNKVVLHEYSEELEKLGILIKARNFLVFQGAVESIAMKNPKE
RTALFEEISRSGELAQEYDKRKKEMVKAEDTQFNYHRKKNIAAERKEAKQEKEEADRYQRLKDEVVRAQVQLQL
FKLYHNEVEIEKLNKELASKNKEIEKDKKRMDKVEDELKEKKELGKMMREQQIEKEIKEKDSELNQKRPQYIK
AKENTSHKIKKLEAAKSLQNAQKHYYKKRKGDMDELEKEMLSVEKARQEFEEERMEEESQSQGRDLTLEENQVKKY
HRLKEEASKRAATLAQELEKFNRDQKADQDRDLLEERKKVETEAKIKQKLREIEENQKRIEKL EYITT SKQSLE
EQKKLEGEELTEEVEMAKRRIDEINKELNQVMEQLGDARIDRQESSRQQRKAEIMESIKRLYPGSVYGRDLIDLCQP
TQKKYQIAVTKVLGKNMDAIIVDSEKTGRDCIQYIKEQRGEPETFLPLDYLEVKPTDEKLRELKGAKLVIDVIRY
EPPHIKKALQYACGNALVCDNVEDARRIAFGGHQRHKTVALDGTLFQKSGVISGGASDLKAKARRWDEKAVDKLK
EKKERLTEELKEQMKAKRKEAELRQVQSQAHLQMLKYSQSDLEQTKTRHLALNLQEKSKLESELANFGPRIND
IKRIIQSREREMKDLKEKMNQVEDEVFEEFCREIGVRNIREFEEKVKRQNEIAKKRLEFENQKTRLGIQLDFEK
NQLKEDQDKVHMWEQTVKKDENEIEKLKKEEQRHMKIIDETMAQLQDLKNQHLAKKSEVNDKNHEMEEIRKKLGG
ANKEMTHLQKEVTAIETKLEQKRSRHNLLQACKMQDIKLPLSKGTMDDISQEEGSSQGEDSVSGSQRISSIYAR
EALIEIDYDGLCEDLKDAQAEIEIKQEMNTLQQKLNEQQSVLQRIAAPNMKAMEKLESVRDKFQETSDEFEAARK
RAKKAKQAFEQIKKERFDRFNACFESVATNIDEIYKALSRNSSAQAF LGPENPEEPYLDGINYNVCVAPGKRFRPM
DNLSGGEKTVAALALLFAIHSYKPAPFFVLDEIDAALDNTNIGKVANYIKEQSTCNFQAIVISLKEEFYTKAESL
IGVYPEQGDCVISKVLTFTDLTKYPDANPNPNEQ

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FIGURE 6194

CCGGGACGTCACGTGGACTGGGGCCGGATAATGSCGGGCGCTGCAGAAGATGCGCGAGCTCTTTTCCGGGCTGGG
GTCTGCGCGGCCCTGGAGGCCTGGCCGGCCTTGACAGATCGCTGTGGAGAATGGCTTCGGGGGTGTGCACAGCCAG
GAGAAGGCCAAGTGGCTGGGGGGTGCAGTGGAGGATTACTTCATGCGCAATGCTGACTTGGAGCTAGATGAGGTG
GAAGACTTCCTTGGAGAGCTGTTGACCAACGAGTTTGATACAGTTGTGGAAGACGGGAGTCTGCCCCAGGTGAGC
CAGCAACTGCAGACCATGTTCCACCCTTCCAGAGGGGTGATGGGGCTGCTCTGAGGGAGATGGCCTCCTGCATC
ACTCAGAGAAAATGCAAGGTCACAGCCACTGCACTTAAGACAGCTAGAGAGACTGATGAGGATGAAGATGATGTG
GACAGTGTGGAAGAGATGGAGGTCACAGCTACGAATGATGGGGCTGCTACAGATGGGGTCTGCCCCAGCCTGAA
CCCTCTGATCCAGACGCTCAGACTATTAAGGAAGAGGATATAGTGAAGATGGCTGGACCATTGTCCGGAGAAAA
AAATGAGTGGGGATGATTGGAATGGCTTTGGGCCCTTATTTGCTGTTCTAAGAGTTGTCTGTAGGGGTTTTTTT
TTTGAGGATTGCAGACCTGTGGACTGGTTACCCCATCTCCACCCTCTCCCCTGTTCTCTGTCTGGCTCCCTCCA
GGGCAAGGAAAACCTAGGGTCCTTGGTCTTGGGGGTGGGGGGACCTTTTCCAGCATATTCCCCTGGGCCTTTAGT
TAACATCCGAGTGACGAAGCCGGTTCCCCAGTACAGTGTCTTTTGGGTGCGGTCATTGTGAGGAAGGGGATGAG
TGAGTGTGGGTGTGGCTGGAGGAGGAGCTAGATGCCGGTGGACAGTGGGCAGGTGGATTTGGGGAGGAGAGGATC
AGCAGCAGCAGCAGTACTCAGTGATAGGGGGCTGGCTGGGTGAGGAATGGTGAGATGAACATGCAAGTGAAGAG
AGAATAGTTGAAAATGTGAATGAAAGTAGCTCTGGAGCCTCTCCCTTACCCACCCACACACACGCAACAGCTC
TGTACCCCTGCCCAGAACTTGGAACCTCCCAGGAATGCTGCCTTCCTTCAGCCCAGCCTCCAGTCCTGGGTTCCC
TCAGGAATTCGAAGACCTTGCTAGGTGGTGAGCTTGGAAGAGCTGGGCTTTGTTTTCTGTCTCCTCTAACCTCT
TTCCTTACTCCTTATCCCATCCCATTTGAGTTCAGGGGTGAGGCTTAAGATCTTAATAAATAATACCTTACTGCT
TAATCTGTGGCTTGACCTGTGAGTAGTACCTTAGAATCAGCCTTCTGGGAGCTCAGCTTCAGAGTTTACAAGGG
AGCAGTTTCTGGGCCACCCTAGCAGCCTGGTACTTTGGACAACCAAACAGATGAACGAACGGAGCACAGCAGTG
CTATGAAAGTTACTGTAAGCCTGAAATAAACTGTATTTTTCT

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FIGURE 6195

MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTN
EFDIVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMACITQRKCKVTATALKTARETDEDEDDVDSVEEMEVIA
TNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK

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FIGURE 6196

GATCCGGAAGTCGGAGCCTAGCTGCGCGAGAGTTTCTGCTCGCTCAACCGAGTTGTCGTGTTGCCCTCGCTTCTC
AGATCCCCGCCGGAAGTGAAGAGAGCAAGCAGATTTGAACCTATCTGCTTTCAAGCTGGTCATCATGATGAACT
TAGACACAAAAATAAAAAGCCAGGTGAAGGTTCCAAGGGCCACAAGAAGATAAGTTGGCCCTACCCTCAGCCTGC
AAAGCAAAATGGGAAGAAAGCAACCTCCAAAGTGCCCTCTGCACCTCATTTTGTTCACCCCAATGATCATGCCAA
TCGAGAGGCTGAATTAAGAAGAAGTGGGTTGAGGAGATGAGGGAGAAGCAGCAAGCCGCCGGGAGCAAGAAAG
ACAAAACGCAGGACCATTGAGAGCTACTGTCAGGATGTCCTAAGACGCCAGGAGGAGTTTGAGCATAAGGAGGA
AGTTTTGCAGGAATTAATATGTTTCTCAGCTGGATGACGAGGCCACGAGGAAGGCTTATTACAAGGAGTTCCG
TAAGGTGGTGAATACTCTGATGTGATTCTGGAAGTCCTGGATGCCAGAGACCCATTAGGCTGCCGCTGCTTCCA
AATGGAGGAGGCTGTCTGCGAGCACAAAGGCAACAAGAAGCTGGTCTTGAACAAGATTGACCTGGTCCC
CAAGGAGGTTGTGGAGAAATGGCTGGATTACCTTCGGAATGAGTTGCCAACCGTGGCTTTCAAGGCCAGTACCCA
GCATCAGGTCAAAAACCTGAATCGTTGCAGTGTGCCAGTAGATCAGGCCTCTGAGTCACTGCTGAAAAGCAAAGC
CTGCTTTGGAGCTGAAAACCTCATGAGGGTTCTGGGGAACATTGCGCCCTTGGTGAAGTGCGCACCCACATTCTG
TGTGGGTGTTGTGGGTCTTCCCAATGTTGGGAAGAGCAGCCTGATCAATAGCCTGAAGCGCAGCCGCGCATGCAG
CGTGGGAGCTGTTCTTGAATTACCAATTCTATGCAGGAGGTCTACCTGGACAAGTTTATCCGGCTCTTGGATGC
TCCAGGCATTGTCCCAGGGCCCAACTCAGAGGTGGGCACCATCTGCGTAACTGCGTCCACGTGCAGAGTGGC
AGACCCTGTGACCCCACTGGAGACCATCTGCAGCGCTGCAACCTGGAGGAGATTTCCAATATTATGGCGTCTC
TGGGTTCCAGACCACTGAGCACTTTCTGACGGCAGTGGCCACCGTTTGGGGAAGAAGAAGAAGGGAGGCTTATA
TAGTCAGGAACAGGCGGCCAAAGCTGTCTAGCTGACTGGGTGAGCGGGAAGATCAGCTTCTATATACCACCACC
AGCCACTCACACTCTGCCCACCCATCTCAGTGCTGAGATCGTTAAGGAAATGACCGAGGTCTTTGACATCGAGGA
TACTGAGCAGGCCAATGAAGACACCATGGAATGCTTGGCCACCGGAGAATCTGATGAGCTGTTGGGTGACACGGA
CCCACTTGAAATGGAGATCAAGTTGCTCCATTCTCCGATGACGAAAAATAGCAGATGCCATTGAAAAATAAACAC
CGTGATATAAGATTGGAGATCTCACTGGGTATTGCACCAATCCGAACCGTCATCAGATGGGGTGGGCTAAACGCAA
TGTGGACCACCGCCCTAAGAGCAACAGTATGGTGGATGTCTGCTCAGTGGACCGCCGCTCAGTGTCTGCAGAGGAT
CATGGAGACGGACCCCTGCAACAGGGCCAGGCTCTGGCATCTGCCCTGAAAAATAAGAAAGAAGATGCAGAAACG
TGCAGATAAAATCGCCAGCAAGCTGTCTGATTCCATGATGTCTGCTCTCGACCTCTCTGGCAATGCTGATGATGG
TGTTGGTGACTAATCGACTGATCTCACTTCCCTTCCGCTCCAAGCACCAGTTCCGGTGGTACGGGGGAATACCAG
TGAAATAGTTTGGTTCTCCCTGAAGCATCTGCATATTGAAAGAACGCTTTCCCCACTGTGTGTCTTCTCCCCCTC
CTCCAGTAAAAACAGTCCCGGCTAGGTGCTGTGGCTCACGTCTGTAATCCCAGCACTTTGGGAGGCCGAGGTGGG
CAGATCACCTGAGGTGAGGAGTTGAGACACAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATACAAA
AAAATTTAGCCGTGCTTAGTGACACCTATAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCGCCTGAACCT
GGGAGACTAAGGCAGGAGAATCGCCTGAACCTGGGAGGCAGAGGTTGCAGTGAGCCAGACGGCACCATTCAGT
CTAGCCTGGGCAACAACACGAAACTCCGTCCC

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FIGURE 6197

TAGAGAAGGCAGACGCATCCCGAACTCGCTGGAGGACAAGGCTCAGCTCTTGCCAGGCCAAATTGAGACATGTCT
GACACAAGCGAGAGTGGTGCAGGTCTAACTCGCTTCCAGGCTGAAGCCTCAGAAAAGGACAGTAGCTCGATGATG
CAGACTCTGTTGACAGTGACCCAGAATGTGGAGGTCCCAGAGACACCGAAGGCCTCAAAGGCCTGGAGGTCTCA
GAGGATGTGAAGGTCTCAAAGCCTCTGGGGTCTCAAAGGCCACAGAGGTCTCAAAGACCCAGAGGCTCGGGAG
GCACCTGCCACCCAGGCCTCATCTACTACTCAGCTGACTGATACCCAGGTTCTGGCAGCTGAAAACAAGAGTCTA
GCAGCTGACACCAAGAAACAGAATGCTGACCCGAGGCTGTGACAATGCCTGCCACTGAGACCAAAAAGGTCAGC
CATGTGGCTGATACAAAGGTCAATACAAAGGCTCAGGAGACTGAGGCTGCACCCTCTCAGGCCCCAGCAGATGAA
CCTGAGCCTGAGAGTGCAGCTGCCCAGTCTCAGGAGAA TCAGGATACTCGGCCCAAGGTCAAAGCCAAGAAAGCC
CGAAAGGTGAAGCATCTGGATGGGGAAGAGGATGGCAGCAGTGATCAGAGTCAGGCTTCTGGAACCACAGGTGGC
CGAAGGGTCTCAAAGGCCCTAATGGCCTCAATGGCCCGCAGGGCTTCAAGGGGTCCCATAGCCTTTTGGGCCCGC
AGGGCATCAAGGACTCGGTTGGCTGCTTGGGCCCGGAGAGCCTTGCTCTCCCTGAGATCACCTAAAGCCCGTAGG
GGCAAGGCTCGCCGTAGAGCTGCCAAGCTCCAGTCATCCCAAGAGCCTGAAGCACCACCACCTCGGGATGTGGCC
CTTTTGCAAGGGAGGGCAAATGATTGGTGAAGTACCTTTTGGCTAAAGACCAGACGAAGATTCCCATCAAGCGC
TCGGACATGCTGAAGGACATCATCAAAGAATACTGATGTGTACCCGAAATCATTGAACGAGCAGGCTATTCC
TTGGAGAAGGTATTTGGGATTCAATTGAAGGAAATTGATAAGAATGACCACTTGTACATTCTTCTCAGCACCTTA
GAGCCCACTGATGCAGGCATACTGGGAACGACTAAGGACTCACCCAAGCTGGGTCTGCTCATGGTGCTTCTTAGC
ATCATCTTCATGAATGGAAATCGGTCCAGTGAGGCTGTCATCTGGGAGGTGCTGCGCAAGTTGGGGCTGCGCCCT
GGGATACATCATTTACTCTTTGGGGACGTGAAGAAGCTCATCACTGATGAGTTTGTGAAGCAGAAGTACCTGGAC
TATGCCAGAGTCCCCAATAGCAATCCCCCTGAATATGAGTTCTTCTGGGGCCTGCGCTCTTACTATGAGACCAGC
AAGATGAAAGTCCCTCAAGTTTGCCTGCAAGGTACAAAAGAAGGATCCCAAGGAATGGGCAGCTCAGTACCGAGAG
GCGATGGAAGCGGATTTGAAGGCTGCAGCTGAGGCTGCAGCTGAAGCCAAGGCTAGGGCCGAGATTAGAGCTCGA
ATGGGCATTGGGCTCGGCTCGGAGAATGCTGCCGGGCCCTGCAACTGGGACGAAGCTGATATCGGACCCCTGGGCC
AAAGCCCGGATCCAGGCGGGAGCAGAAGCTAAAGCCAAAGCCCAAGAGAGTGCCAGTGCCAGCACTGGTGCCAGT
ACCAGTACCAATAACAGTGCCAGTGCCAGTGCCAGCACCAGTGGTGGCTTCAGTGCTGGTGCCAGCCTGACCGCC
ACTCTCACATTTGGGCTCTTCGCTGGCCTTGGTGGAGCTGGTGCCAGCACCAGTGGCAGCTCTGGTGCCCTGTGGT
TTCTCTACAAGTGAAGATTTTAGATATTGTTAATCCTGCCAGTCTTTCTCTTCAAGCCAGGGTGATCCTCAGAA
ACCTATCCAACACAGCACTCTAGGCAGCCACT

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FIGURE 6198

MSDTSESGAGLTRFQAEASEKDSSSMMQTLLTVTQNEVPETPKASKALEVSEDEVKVS KASGVSKATEVSKTPEA
REAPATQASSTTQLTDTQVLAAENKSLAADTKKQONADPQAVTMPATETKKVSHVADTKVNTKAQETEAAPSQAPA
DEPEPESAAAQSQENQDTRPKVKAKKARKVKHLDGEEDGSSDQSQASGTTGGRRVSKALMASMARRASRGPIAFW
ARRASRTRLAAWARRALLSLRSPKARRGKARRRAAKLQSSQEPPEAPPRDVALLOGRANDLVKYLAKDQTKIPI
KRSDMLKDIIKEYTDVYPEIIERAGYSLEKVFQIQLKEIDKNDHLYILLSTLEPTDAGILGTTKDSPKLGLLMVL
LSIIFMNGNRSSEAVIWEVLRKLGLRPGIHHSIFGDVKKLITDEFVKQKYLDYARVPNSNPPEYEFFWGLRSYYE
TSKMKVLKFACKVQKKDPKEWAAQYREAMEADLKAAAEAAAEAKARAEIRARMGIGLSENAAGPCNWDEADIGP
WAKARIQAGAEAKAKAQESGSASTGASTSTNNSASASASTSGGFSAGASLTATLTFGLFAGLGAGASTSGSSGA
CGFSYK

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FIGURE 6199

TGGCCAACTTCTGAACAGGAAGCAGTTCGCTCGCGCCTAGGTTGGCGCGGGCTGGGAGGTGTTCCAGCCCTTTAA
GATGTTGCGCGTGGTGAGCTGGAACATCAATGGGATTTCGGAGACCCCTGCAAGGGGTGGCAAATCAGGAACCCAG
CAACTGTGCCGCCGTGGCCGTGGGGCGCATTTTGGACGAGCTGGATGCGGATATCGTCTGTCTCCAGGAAACCAA
AGTGACCAGGGATGCACTGACAGAGCCCCCTGGCTATCGTTGAGGGTTATAACTCCTATTTTCAGCTTCAGCCGCAA
CCGTAGCGGCTATTCTGGTGTAGCCACCTTCTGTAAGGACAATGCTACCCAGTGGCTGCTGAAGAAGGCCTGAG
TGGCCTGTTTGCCACCCAGAATGGGGATGTTGGTTGCTATGGAAACATGGATGAGTTTACCCAAGAGGAACTCCG
GGCTCTGGATAGTGAGGGCAGGGCCCTCCTCACACAGCATAAGATCCGCACATGGGAAGGTAAGGAGAAGACCTT
GACCCTAATCAACGTGTACTGCCCCATGCGGACCCCTGGGAGGCCTGAGCGGCTAGTCTTTAAGATGCGCTTCTA
TCGTTTGCTGCAAATCCGAGCAGAAGCCCTCCTGGCGGCAGGCAGCCATGTGATCATTCTGGGTGACCTGAATAC
AGCCCACCGCCCCATTGACCACTGGGATGCAGTCAACCTGGAATGCTTTGAAGAGGACCCAGGGCGCAAGTGGAT
GGACAGCTTGCTCAGTAACTTGGGGTGCCAGTCTGCCTCTCATGTAGGGCCCTTCATCGATAGCTACCGCTGCTT
CCAACCAAAGCAGGAGGGGGCCCTTACCTGCTGGTCAGCAGTCACTGGCGCCCGCCATCTCAACTATGGCTCCCG
GCTTGACTATGTGCTGGGGGACAGGACCCTGGTCATAGACACCTTTCAGGCCTCTTTCCTGCTGCCTGAGGTGAT
GGGCTCTGACCACTGCCCTGTGGGTGCAGTCTTGAGTGTGTCCTCTGTGCCTGCAAAACAGTGCCCCACCTCTGTG
CACCCGCTTCTCCTTGAGTTTGAGGCACCCAGCTCAAGATCCTTCGCTTCCTAGTTCCTCTCGAACAAGTCC
TGTGTTGGAGCAGTCGACGCTGCAGCACAACAATCAAACCCGGGTACAGACATGCCAAAACAAAGCCCAAGTGG
CTCAACCAGGCCTCAGCCAGTCAGGTTGGCTCTAGCAGAGGCCAGAAAAACCTGAAGAGCTACTTTCAGCCCTC
CCCTAGCTGTCCCCAAGCCTCTCCTGACATAGAGCTGCCTAGCCTACCACTGATGAGCGCCCTCATGACCCCGAA
GACTCCAGAAGAGAAGGCAGTGGCCAAAGTGGTGAAGGGGCAGGCCAAGACTTCAGAAGCCAAAGATGAGAAGGA
GTTACGGACCTCATTCTGGAAGTCTGTGCTGGCGGGGCCCTTTCGCGCACACCCCTCTGTGGGGGGCCACAGGGAGCC
ATGTGTGATGCGTACTGTGAAGAAGCCAGGACCCAACCTTGGGCCGCCGCTTCTACATGTGTGCCAGGCCCCGGG
TCCTCCCCTGACCCCTCCTCCCGGTGCAACTTCTTCTCTGGAGCAGGCCAGCTGGAACCAATGGAGGCCTGGG
GACATCTGGCATGGTCAACCCCTGCACATGATCTGAGGCCAGCTCCCTTCCCTGAGCTGCCTCCTGCTTCTCCT
CAAAGTCTCCTACCCCTTCTTCTCCTCTTTTAAGCCCTCTCTTCTCGCTTTCCTTCTTACCTAGCTCCTTGTGG
TGAGCTTCTTGTGCCCTTAATCCTGTGACCCAGCCCTTACACCACTTTCACCTTCTGTCCGAAGTACACGGAC
ACTAGCTGCCCCAGGAAGTTGTGTGATTTTAAATCACTTCTGTCTTTGCTGGAAAGTGTATTTGTGCATAAATAA
AGTCTGTGTATTTGTTTCAGGGTTGCAAAAAAAAAAAAAA

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FIGURE 6200

MLRVVSWNINGIRRPLQGVANQEPSNCAAVAVGRILDELDADIVCLQETKVTRDALTEPLAIVEGYNSYFSFSRN
RSGYSGVATFCKDNATPVAAEEGLSGLFATQNGDVGCYGNMDEFTQEELRALDSEGRALLTQHKIRTWEGKEKTL
TLINVYCPHADPGRPERLVFKMRFYRLLQIRAEALLAAGSHVILGDLNTHARPIDHWDAVNLECFEEDPGRKWM
DSLNLGQCQSASHVGPFIDSYRCFQPKQEGAFTCWSAVTGARHLNYGSRLDYVLGDRTLVIDTFQASFLLEVM
GSDHCPVGAVLSVSSVPAKQCPPLCTRFLPEFAGTQLKILRFLVPLEQSPVLEQSTLQHNNTQTRVQTCQNKQVR
STRPQPSQVGSSRGQKNLKSYPSPSPCPQASPDIELPSLPLMSALMTPKTPEEKAVAKVVKQAKTSEAKDEKE
LRTSFWKSVLAGPLRTPLCGGHREPCVMRTVKKPGPNLGRRFYMCARPRGPPTDPSSRCNFFLWSRPS

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FIGURE 6201

GCCACCGCCAGCAGGGAGGCGGAGGGCTAGCGAGCCAAGCGGTGGGGACGCCGCTGCCTTCCTCTTTGCCTGTCT
CGCCGCCCTCCTAGACACGCTCCTCATCTACGGATCCTACCCCTCCCCGCTCTTGCAAGCATTCACTCGGCCGGTC
GCCTGCTGACCCCTCCTTCGCCACAGGCTCGTAGCGGAGGCAGCAGCGAGCAGGCATGAAGACCCCCAACGCACAG
GAAGCCGAAGGGCAACAAACCAGGGCAGCTGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAAGTC
TCCAAAAGAAGCAGAGAGGGCCGACCTTCATCCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGA
TGGAAGGAAGGAGATGAGCCCATCACGCAGTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTT
TATCTGGTGAAATATGATGGAATTGACTGTGTCTATGGACTGGAACCTTCACAGAGATGAAAGGGTTTTGTCTCTT
AAAATTCCTTCTGACAGGGTGGCATCATCTCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCA
GTGGAACATATGTTTGAGGGAGAGCATGGTTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATC
ATGAAAGCCTGGTTTTATATTACCTATGAGAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAG
GAAGGTGACCTCCGCATCATGCCAGAATCCAGTGAGTCTCCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGAT
GGCCTAATAGGTAAGCATGTGGAATATAACAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTG
GAAGCCAAACCCTCTGTGTATTTTCATCAAGTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAG
TCCTAACTGTTAGGGTAAAATTTGGCACATGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGC
CTTTCAGTGATTGAAAGCTTATGGAATCCCTGATAACTAAACATCTTTGCCAGCATTAACTGTTGTTTTGCTCT
AAAAAATACAACTTGTGTGTACATG

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FIGURE 6202

MKTPNAQEAEQQOTRAAAGRATGSANMTKKKVSQKKQGRPSSQPRRNIVGCRISHGWKEGDEPITQWKGTVLDQ
VPINPSLYLVKYDGIDCVYGLELHRDERVLSLKILSDRVASSHISDANLANTIIGKAVEHMFEGEHGSKDEWRGM
VLAQAPIMKAWFYITYEKDPVLYMYQLLDDYKEGDLRIMPESSESPTTEREPGGVVDGLIGKHVEYTKEDGSKRI
GMVIHQVEAKPSVYFIKFDDDFHIYVYDLVKKS

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FIGURE 6203

GGCAGTGGGGTTACAGACAGCACCAGAGGCACTCAGGGCAGGAGGGTAGTGGGTGCTGGTCAAGGCCGCTTTGC
AGGGGATTGGGAGTGGATGCTAGTGGCAGTAAAGGGTAAAGGGAGGGCAGTGGGCTCTGAGCTAGGAGGAGGTGG
CCCAGCCACTTCTGCAGAGTTCCTAACCCAGACAGCTCTACTGCACCACCCAGCCCTTCCCCACAGCCCAAAG
GAACTTAAGAGGGAGAGCACTGCGGGCATGCAGCCAGGATTTCCAGCATTGCTTCCAGGCTCCTAGGGGAAACTT
AGGCACTAGCGCAGACTACATCCAGACATGGCTATAGGGAAAAGTTTGCCTTGTGGCACACTGGGTGTGTCTCTC
TATCCTCTCTCCTCCCCAGCAGGCATGAAGACCCCAACGCACAGGAAGCCGAAGGGCAACAAACCAGGGCAGC
TGCAGGACGGGCCACTGGGTCTGCAAACATGACAAAGAAAAAGTCTCCAAAAGAAGCAGAGAGGCCGACCTTC
ATCCAGCCCCGCAGGAACATCGTGGGCTGCAGAATTTCTCATGGATGGAAGGAAGGAGATGAGCCATCACGCA
GTGGAAGGAACCGTTCTGGATCAGGTGCCTATAAATCCCTCTCTTTATCTGGTGAAATATGATGGAATTGACTG
TGTCTATGGACTGGAACCTTCACAGAGATGAAAGGGTTTTGTCTCTTAAATTTCTTTCTGACAGGGTGGCATCATC
TCACATTAGTGATGCCAACCTTGCAAATACCATAATTGGCAAAGCAGTGGAAACACATGTTTGAGGGAGAGCATGG
TTCTAAGGATGAATGGAGGGGGATGGTCTTAGCTCAAGCACCTATCATGAAAGCCTGGTTTTATATTACCTATGA
GAAAGATCCTGTCTTGTACATGTACCAGCTTCTAGATGATTATAAGGAAGGTGACCTCCGCATCATGCCAGAATC
CAGTGAGTCTCTCCAACAGAGAGGGAGCCAGGAGGAGTTGTAGATGGCCTAATAGGTAAGCATGTGGAATATAC
CAAAGAAGATGGCTCCAAAAGGATCGGCATGGTCATTACCAAGTGGAACCAAACCCCTCTGTGTAATTCATCAA
GTTTGATGATGATTTCCATATCTATGTCTACGATTTGGTGAAAAAGTCCTAACTGTTAGGGTAAATTTGGCACA
TGTGTGGAACAAATGTATAATTTGTAGACATGCAAAAAATGTTGCCTTTAGTGTACTGAAAGCTTATGGAATC
CCTGATAACTAAACATCTTTGCCAGCATTAAGTGTGTTTTGCTCTAAAAAATACAAATTTGTGAATACATGACA
TGCTGTCTGTAAGCCCTTTGTCTTGTGAAAAGTTCGGGTGTGTTTGGTAGATGGGGCATGGAAGGAACGAACAG
CTGTCAATTTTCGGCTGTGAATAAAGTTCAGCTAGAATCATAATCAGTCATTTAAAAATGGCACTGGATTTAGCTG
GTCTGGTCTGGAGGGGGCAGGGGAAGGAACAAGAGATTGGCTGTCTTGGGGAGAGAGGAGGAGGTGACTGCTTAG
GAAGAGGTGGAAGGGCCAGAAAGGGAGGGCTCCTTGGGGGAGGGGATGACCTATGAGAAGGAAACATCCAAC
TCAGAAGGAAGACTAACAGAGGGGAGAGTGAGATCTTGGGGCTTAGAGGAAAATAGAATAAACTGAGTAGAGAGGA
ACACAAAGAAGCTTAGAAGAGGGTCCAGAGTAAGGTGGAGAAGGATCAACCTGACAGGGATCTGGGAGAGGCTAA
AGGATACACAAAGGAAGAGGCTATGTGGGTTAGGGTGTGAGGGATTAGAAGAGGGCCACTGAGGAAGGAGGAA
TTCAAAGAAGAAAAGACTGACAGAGGGAGTGAGAATACAGGAAAAGAGTTGTGGGGTATGGGGCCCATGAGAGATC
GGAAGGCCCAGGAAAATGTTGGACTTCTGGTAGTGTCCACATTGCTCTTCTGGCTCTATGCACAAAGGAAGTGG
CAACTGTCAAAGATGCCAGATGCATTGGAGGTTCACTAGAAGAGCATGTTGACAGGAATGACTCAGTCAAGTTAA
TCAGGAGCCAAGTTTATGCCATAAGGCTTTTCTGTTTTAGGGAGTTAATGACACACTTGTCCAGCAGAAACCC
AATGCTCAGCCTAAACACGCTAACATGGTGCCCCACATGTGCTGGGCTGTGGGCTGCCTCCTCACATTTGTCTCTG
CGCTAGATAAGCAATCTTGGTAGAGGATGGGTTAGTGGGGCTCTCAGAACTTAAGAGATGTGCCATCTTGCAATTT
GGAAAGTACTTTATCCAGAAAAAATGAAATCTTACTGAACTCAGGTACAGCAGTCTCATCACTCCTATTCTCTCT
GCTGGAATGTTTGTCTTCTATCTAGAGATGAGGGGCATCAGAGGACTGAGCCTAGTGTCTCTCGAG

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FIGURE 6204

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTGATGGGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCGTGTACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAACTCTCTGTCTCCAAGCCACAGTGACAACCTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTT
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTGCGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACTTCCCAGAATCTGGGCAACAACACTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCCCGCCTGCTGGACACAGTTCCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAAGTGCTGTGTAATAATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCTTCTGCTGCTGCTTCTTCCCTGCTACCTCTCTTCTTGGATAGCCCAAAGTG
TCCGCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTCTCTTTCTTCAGGGC
CAGACAGCTTTTAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6205

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPC TYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGR LHVSHKVP GDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRI SLQCQARGSPPI SYIWYKQQTNNQEPIKVATLSLLFKPAVIADSGSYFCTAKGQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPT TMTYPLKATSTVKQSWDWT TDMGYLGETSAGPGKSLPVFAIILIISLCCMVFT
MAYIMLCRKTSQQEHVYEAA RAHAREANDSGETMRVAIFASGCSSDEPT SQNLGNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEFLATEGK SVC

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FIGURE 6206

CAGTAGTGCTAGCAGCTTCGCGGTTCCGGTCCTCGGACCCGGCAGCCACCACTGGTGCTGAGCTGCTAGGAAGCCC
CTATCGGCGAGCTCTTTGGAGCTTGAACCCATTGTCACTCCTCCGACTCACCGGAAAAACAAAAATGGGTGAA
GCAGATCGCCTAGGAAAGTTTTTCATTGGTGGGCTTAATACGGAAACAAATAAGAAAGCTCTTGAAGCAGTATTT
GGCAAATATGGACAAATAGTGGAAGTACACTTGATGAAAGACTGTGAAACCAACAAATCAAGAGGATTTGCTTTT
ATCACCTTTGAAAGACCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAGTCATTAGATGGAAAAGCC
ATCAAGGTGGAACAAGCCACCAACCGTCATTTGAAAGTGGTAGACGTGGACCGCCTCCACCTCCAAGAAGTAGA
GGCCCTCCAAGAGTTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGAACCTCCCTCACGGGGAGGACAC
ATGGATGACTGGTGGATATTCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTCCCAGTAAAAAGAGGACC
ACCACCAAGAAGTGGGGGTCTTCCTCCTAAGAGATCTGCACCTTCAGGACCAGTTCGCAGTAGCAGTGGAATGGG
AGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTACCGAGGTCCACCTCGAAGGGAATCGCTGCCCTCTTG TAG
AGAGCTCCACCTACACGAGGGCGCCCCATCTTATGGTGGAAAGCAGTCGCTATGATGATTACAGCAGCTCACGTG
ACGGATATGGTGGAAAGTCGAGACAGTTACTCAAGCAGTCGAAGTGATCTCTACTCAAGTGGTTCGTGATCAGGTTG
GCAGACAAGAAAGAGGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCCTACAGCAGTTCAA
GCCGTGGAACACCAAGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGA
AACAAACAAAACTTTGTACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACCTATTCTATCATAACTACCCAA
GAAGTACTAAAAGGAAAAATTGTGTTACCTTTTTTAAATTCCTGTAAAGCTCCCCTCCATAATTTTTATGTTT
TTGTGAGGAAAAAAGTAAACATGTTTAAATTTATTTGACTTTTGCATTGCTTTTCAACAAGCAAATGTTAAAT
GTGTTAAGACTTATACTAGTGTGTAACCTTCCAAGTAAAAGTATCCCTAAAGGCCACTTCCTATCTGATTTTTC
CCAGTAAATGAGGCAGGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAATGGAGAGATGAATCATTC
TACCTACACAAACAAGCTAGCTATTAGAGGGTGGTTGGGATATGCTACTCATAAGATTTCAGGGTGTCTTCCAAC
TGAAATCTCAATGTTCTTAGTATGAAAAACCTGAAATCGCATGCCTATTACCCAGTAAACCCAAAAAAGCAAAT
GGATAATGCTGGCCATTCTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCCTCCCCAA
TAAGACCATTTAAGTGTGTGCTAAACAACCTAAGAATACTAAATAAAATGTTTGGCCAAAACC

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FIGURE 6207A

GGCCAGCCGAATCCAAGCCGTGTGTACTGCGTGCTCAGCACTGCCCGACAGTCCTAGCTAAACTTCGCCAACTCC
GCTGCCCTTTGCCGCCACCATGCCCCAAAACGATCAGTGTGCGTGTGACCACCATGGATGCAGAGCTGGAGTTTGCC
ATCCAGCCCAACACCACCGGGAAGCAGCTATTTGACCAGGTGGTGAAAACCTATTGGCTTGAGGGAAGTTTGTTT
TTTGGTCTGCAGTACCAGGACACTAAAGGTTTCTCCACCTGGCTGAAAACCTCAATAAGAAGGTGACTGCCCAGGAT
GTGCGGAAGGAAAGCCCCCTGCTCTTTAAGTTCCGTGCCAAGTTCTACCCTGAGGATGTGTCCGAGGAATTGATT
CAGGACATCACTCAGCGCCTGTTCTTTCTGCAAGTGAAAAGAGGGCATTCTCAATGATGATATTTACTGCCCGCCT
GAGACCGCTGTGCTGCTGGCCTCGTATGCTGTCCAGTCTAAGTATGGCGACTTCAATAAGGAAGTGCATAAGTCT
GGCTACCTGGCCGGAGACAAGTTGCTCCCGCAGAGAGTCTTGGAAACAGCACAACTCAACAAGGACCAGTGGGAG
GAGCGGATCCAGGTGTGGCATGAGGAACACCGTGGCATGCTCAGGGAGGATGCTGTCTTGGAAATATCTGAAGATT
GCTCAAGATCTGGAGATGTATGGTGTGAACTACTTCAGCATCAAGAACAAGAAAGGCTCAGAGCTGTGGCTGGGG
GTGGATGCCCTGGGTCTCAACATCTATGAGCAGAATGACAGACTAACTCCCAAGATAGGCTTCCCCTGGAGTGAA
ATCAGGAACATCTCTTTCAATGATAAGAAATTTGTCTCAAGCCCATTGACAAAAAGCCCCGGACTTCGTCTTC
TATGCTCCCCGGCTGCGGATTAACAAGCGGATCTTGGCCTTGTGCTATGGGGAACCATGAAGTATACATGCGCCGT
CGCAAGCCTGATACCATTGAGGTGCAGCAGATGAAGGCACAGGCCCCGGGAGGAGAAGCACCAGAAGCAGATGGAG
CGTGCTATGCTGGAAAATGAGAAGAAGAAGCGTGAAATGGCAGAGAAGGAGAAAGAGAAGATTGAACGGGAGAAG
GAGGAGCTGATGGAGAGGCTGAAGCAGATCGAGGAACAGACTAAGAAGGCTCAGCAAGAACTGGAAGAACAGACC
CGTAGGGCTCTGGAACCTTGAGCAGGAACGGAAGCGTGCCAGAGCGAGGCTGAAAAGCTGGCCAAGGAGCGTCAA
GAAGCTGAAGAGGCCAAGGAGGCCTTGCTGCAGGCCTCCCGGGACCAGAAAAAGACTCAGGAACAGCTGGCCTTG
GAAATGGCAGAGCTGACAGCTCGAATCTCCAGCTGGAGATGGCCCCGACAGAAGAAGGAGAGTGAGGCTGTGGAG
TGGCAGCAGAAGGCCAGATGGTACAGGAAGACTTGGAGAAGACCCGTGCTGAGCTGAAGACTGCCATGAGTACA
CCTCATGTGGCAGAGCCTGCTGAGAATGAGCAGGATGAGCAGGATGAGAATGGGGCAGAGGCTAGTGCTGACCTA
CGGGCTGATGCTATGGCCAAGGACCGCAGTGAGGAGGAACGTACCCTGAGGCAGAGAAGAATGAGCGTGTGCAG
AAGCACCTGAAGGCCCTCACTTCGGAGCTGGCCAATGCCAGAGATGAGTCCAAGAAGACTGCCAATGACATGATC
CATGCTGAGAACATGCGACTGGGCCGAGACAAATACAAGACCCGTGCGCCAGATCCGGCAGGGCAACACCAAGCAG
CGCATTGACGAATTTGAGTCTATGTAATGGGCACCCAGCCTCTAGGGACCCCTCCTCCCTTTTCTTGTCCCA
CACTCCTACACCTAACTCACCTAACTCATACTGTGCTGGAGCCACTAACTAGAGCAGCCCTGGAGTGCACCAAG
CATTTAATGTAGCCATGGGACCAAACTAGCCCCCTTAGCCCCACCCACTTCCCTGGGCAAATGAATGGCTCACT
ATGGTGCCAATGGAACCTCCTTTCTCTTCTGTTTCCATTGAATCTGTATGGCTAGAATATCTTACTTCTCCAGC
CTAGAGGTACTTTCCACTTGATTTTGCAAATGCCCTTACACTTACTGTTGTCCTATGGGAGTCAAGTGTGGAGTA
GGTTGGAAGCTAGCTCCCCCTCTCTCCCTACCCTGTCTTCTTTCAGGGTCTGAGATTTACACGGTTGGAGTGT
TATGCGGTCTAGGGAATGAGACAGGACCTAGGATATCTTCTCCAGGATGTCAACTGACCTAAAATTGCCCCCCC
ATCCCGTTTAGAGTTATTTAGGCTTTGTAACGATTGGGGGATAAAAAGATGTTCAAGTCAATTTTGTCTTACCTC
CCAGATCGGATCTGTTGCAAACCTCAGCCTCAATAAGCCTTGTGCTTGAATTTAGGGACTCAATTTCTCCCCAGGG
TGGATGGGGGAAATGGTGCCTTCAAGACCTTACCAAAACATACTAGAAGGGCATTGGCCATTCTATTGTGGCAAG
GCTGAGTAGAAGATCCTACCCCAATTCCTTGTAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTA
CCCCCTACTTATTATTCAGATCTGCAGTCACTTCGTGGGATCTGCCCTCCTGCTTCAATACCCAAATCCTCT
CCAGCTATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATAT
GTTACACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATA
GCTCCTGCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCA
AAAAGCTGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCTCTCAGGTGACCAAAATCCCC
TTCTCATCACTCCCCCTCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACAC
CAGCTGTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCAC
CCCTTGCTCTCAACCCAGGAGCATCCACCTCCTTCTGTCTCATGTGTGCTCTTCTTCTTCTTACAGTATTATG
TACTCTACTGATATCTAAATATTGATTTCTGCCTTCTTGTCTAATGCACCATTAGAAGATATTAGTCTTGGGGCA
GGATGATTTTGGCCTCATTACTTTACCACCCCCACACCTGGAAAGCATATACTATATTACAAAATGACATTTTGC
CAAAATTATTAATATAAGAAGCTTTAGTATTAGTGATGTCATCTGTCACTATAGGTACATAAATCCATTCTTAA
AGTACTTGTTATTTGTTTTTATTATTACTGTTTGTCTTCTCCCAGGGTTAGTCTCTAAGGGGCCATCCTGTCC
CACCATGCAGTGCCCCCTAGCTTAGAGCCTCCCTCAATTCCCCCTGGCCACCACCCCCCACTCTGTGCTGACCTT

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FIGURE 6207B

GAGGAGTCTTGTGTGCATTGCTGTGAATTAGCTCACTTGGTGATATGTCCTATATTGGCTAAATTGAAACCTGGA
ATTGTGGGGCAATCTATTAATAGCTGCCTTAAAGTCAGTAACTTACCCTTAGGGAGGCTGGGGGAAAAGGTTAGA
TTTTGTATTCAGGGGTTTTTGTGTACTTTTTGGGTTTTTAAAAATTGTTTTTGAGGGGTTTATGCTCAATCC
ATGTTCTATTTTCAAGTGCCAATAAAATTTAGGAAGACTTC

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FIGURE 6208

MPKTISVRVTMDAELEFAIQPNTTGKQLFDQVVTIGLREVWFFGLQYQDTKGFSTWLKLNKKVTAQDVRKESP
LLFKFRAKFYPEDVSEELIQDITQRLFFLQVKEGILNDDIYCPPETAVLLASYAVQSKYGDFNKEVHKSGYLAGD
KLLPQRVLEQHKLNDQWEERIQVWHEEHRGMLREDAVLEYLKIAQDLEMYGVNYFSIKNKKGSELWLGVDALGL
NIYEQNDRLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQOMKAQAREEKHQKQMERAMLENEKKKREMAEKEKEKIEREKEELMERLKQIEEQTKKAQOELEEQTTRALEL
EQERKRAQSEAEKLAKERQEAEAKEALLQASRDQKKTQEQLALEMAELTARISOLEMARQKKESEAVEWQQKAQ
MVQEDLEKTRAELKTAMSTPHVAEPAENEQDEQDENGAEASADLRADAMAKDRSEEERTTEAEKNERVQKHLKAL
TSELANARDESKKTANDMIHAENMRLGRDKYKTLRQIRQGNTKQRIDEFESM

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FIGURE 6209

TAGAAGATCCTACCCCAATTCCTTG TAGGAGTATAGGCCGGTCTAAAGTGAGCTCTATGGGCAGATCTACCCCTT
ACTTATTATTCCAGATCTGCAGTCACTTCGTGGGATCTGCCCCCTCCCTGCTTCAATACCCAAATCCTCTCCAGCT
ATAACAGTAGGGATGAGTACCCAAAAGCTCAGCCAGCCCCATCAGGACTCTTGTGAAAAGAGAGGATATGTTTAC
ACCTAGCGTCAGTATTTTCCCTGCTAGGGGTTTTAGGTCTCTTCCCCTCTCAGAGCTACTTGGGCCATAGCTCCT
GCTCCACAGCCATCCCAGCCTTGGCATCTAGAGCTTGATGCCAGTAGGCTCAACTAGGGAGTGAGTGCAAAAAGC
TGAGTATGGTGAGAGAAGCCTGTGCCCTGATCCAAGTTTACTCAACCCTCTCAGGTGACCAAAATCCCCTTCTCA
TCACTCCCCCTCCAAAGAGGTGACTGGGCCCTGCCTCTGTTTGACAAACCTCTAACCCAGGTCTTGACACCAGCTG
TTCTGTCCCTTGGAGCTGTAAACCAGAGAGCTGCTGGGGATTCTGGCCTAGTCCCTTCCACACCCCCACCCCTTG
CTCTCAACCCAGGAGCATCCACCTCCTTCTCTGTCTCATGTGTGCTCTTCTTCTTTCAGTATTAGTGATGTCAT

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FIGURE 6210

GTGCGGAGCGGCGCGGCACAGAGCCTGTTGTTGAGCTCAGTATGTCGTGGGAATCCGGGGCCGGGCCAGGTCTAG
GTTCCAGGGGATGGATCTCGTGTGGAGTGCCTGGTACGGAAAGTGCCTTAAAGGGAAAGGGTCGTGCGCACTCT
CGCCCCACGGCATCGTGGTCGCCTGGCTCAGCAGGGCCGAGTGGGACCAGGTGACGGTTTATCTGTTCTGTGACG
ACCATAAGTTGCAGCGGTACGCGCTTAACCGCATCACGGTGTGGAGGAGCAGGTGAGGCAACGAACTCCCTCTGG
CAGTGGCTTCTACTGCTGACCTGATACGCTGTAAGCTCTTGGATGTAAGTGGTGGCTTGGGCACTGATGAACCTA
GACTGCTCTATGGCATGGCATTGGTCAGGTTTGTGAATCTTATCTCAGAGAGGAAGACAAAGTTTGCCAAGGTCC
CCCTCAAGTGTCTGGCTCAAGAGGTAAATATTCCGGATTGGATTGTTGACCTTCGCCATGAGTTGACCCACAAGA
AAATGCCCATATAAATGACTGCCGCAGAGGCTGCTACTTTGTCCTGGATTGGCTCCAGAAGACCTATTGGTGCC
GCCAAGTGGAGAACAGCCTGAGAGAGACCTGGGAGTTGGAGGAGTTCAGGGAAGGGATAGAGGAAGAGGATCAAG
AGGAAGATAAGAACATTGTTGTTGATGACATCACAGAACAGAAACCAGAGCCTCAGGATGATGGGAAAAGTACGG
AGTCAGATGTAAAGGCCGATGGAGACAGCAAAGGCAGCGAAGAGGTGGATTCTCATTGCAAAAAGGCCCTGAGTC
ATAAAGAGCTATATGAAAGAGCCCGAGAACTGCTGGTATCATACGAAGAGGAGCAGTTTACGGTGTCTGGAGAAAT
TTAGGTATTTACCTAAGGCCATTAAGGCGTGGAAATAACCCGTCGCCACGTGTAGAAATGTGTCTGGCAGAGCTCA
AGGGCGTTACGAGAACAGGGAGGCTGTGCTGGATGCTTTTCTGGATGATGGCTTCCTTGTCCCCACATTTG
AACAGTTGGCAGCTTTGAGATAGAATATGAAGATGGTCAGACTGAGGTCCAGAGAGGGGAAGGTACTGACCCAA
AGTCACACAAAAACGTGGACTTGAATGACGTCTGGTGCCAAAGCCGTCTCTCAGTTCTGGCAGCCCCCTGCTCA
GGGGCCTGCACTCCAGAACTTACGCAGGCCCTATTGGAGAGGATGCTCTCTGAACTGCCAGCCTTGGGGATCA
GCGGGATCCGGCCTACCTACATCCTCAGATGGACCGTTGAACTGATCGTGGCCAAACACCAAGACTGGACGGAATG
CTCGCCGATTTTCTGAGGCCAGTGGGAAGCAAGAAGGGGCTGGAGGCTGTTCAACTGCTCCGCCTCCCTTGACT
GGCCCCGGATGGTTGAGTCCTGCTTGGGCTCACCTTGCTGGGCCAGCCCCCAACTCCTTCGGATCATCTTCAAAG
CCATGGGGCAGGGCCTGCCAGACGAGGAGCAGGAGAAGCTGCTGCGCATCTGTTCCATTTATACCCAGAGTGGAG
AAAACAGCCTGGTGCAGGAGGGCTCTGAGGCCTCCCCATTGGGAAGTCTCCATATACACTAGACAGCCTGTATT
GGAGCGTCAAGCCAGCCAGCTCCAGCTTCGGGTCTGAAGCAAAGGCCAGCAACAGGAGGAGCAGGGCAGTGTTA
ATGATGTCAAGGAAGAGGAGAAGGAGGAGAAAGAGGTCTTGCCAGACCAGGTAGAGGAGGAGGAAGAAAATGATG
ACCAAGAGGAGGAAGAGGAGGATGAAGATGATGAAGATGATGAAGAGGAAGACAGAATGGAGGTGGGGCCTTTCT
CTACAGGGCAAGAGTCCCCACTGCCGAGAATGCTAGGCTTCTGGCCCAGAAAAGAGGAGCTTTCAGGGGCTCTG
CATGGCAGGTTAGCTCAGAAGACGTGCGATGGGACACATTTCCCTAGGCCGAATGCCAGGTGACACCGAGGACC
CAGCAGAGCTCATGCTGGAGAATTATGACACCATGTATCTTTTGGACAGCCTGTGCTAGAGCAGCGGCTGGAAC
CCTCAACATGCAAGACTGACACCTTGGGCCTGAGCTGTGGTGTGCGCAGTGGCAACTGCAGCAACAGCAGCAGCA
GCAACTTCGAGGGCCTTCTCTGGAGCCAGGGGCAGCTGCATGGGCTCAAAACTGGCCTGCAGCTCTTCTGATGGC
CATCCCTGGTGCAAGTGTTTCATCCAGCCGTGCCAGGGCAACAGCCCACCCCTAGTACAACCTGATGCTCCCTGAG
ACAACCTGGGAGACAGCCTGGATCAGCCACATCAACTCAGTTGTCCACCACAGGGGAATTTGAATGTCTTTTGT
TTTTGTTTTGTTTTGAAAAATAATAAACAGGCAACTGT

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FIGURE 6211

MSWESGAGPGLGSQGM DLVWSAWYGKCVKGKGS LPLSAHGIVVAWLSRAEWDQVTVYLF CDDHKLQRYALNRITV
WRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLYGMALVRFVNLI SERKTKFAKVPLKCLAQEVNIPDW
IVDLRHELTHKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFREGIEEEDQEEDKNIVVDDITEQ
KPEPQDDGKSTESDVKADGDSKGSEEVDSHCKKALSHKELYERARELLVS YEEEQFTVLEKFRYLPKAIKAWNNP
SPRVECVLAE LKGVT CENREAVLDAFLDDGFLVPTFEQLAALQIEYEDGQTEVQRGEGTDPKSHKNVDLNDVLVP
KPFSQFWQPLLRGLHSQNF TQALLERMLSEL PALGISGIRPTYILRWTVELIVANTKTGRNARRFSAGQWEARRG
WRLFNC SASLDWPRMVESCLGSPCWAS PQLLR IIFKAMGQGLPDEEQEKLLRICSIYTQSGENSLVQEGSEASPI
GKSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEKEEKEVLPDQVEEEEENDDQEEEEDEDEDDED
EEEDRMEVGPFSTGQESPTAENARLLAQKRGALQGS AWQVSS EDVRWDTFPLGRMPGQTEDPAELMLENYDTMYL
LDQPVLEQRLEPSTCKTDTLGLSCGVGSGNCSNSSSNFEGLLWSQGQLHGLKTGLQLF

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FIGURE 6212

ATGAACAGCCCGGACCTCCGTCGTCCCGCGGCGACCAAAATCTCCGCTGGCCGCACCGCTGTGACTACTCCGGAC
TCGCCGGCAGAGTTTGGCCGCCGGGGAGGGTGGCCGATTGGCGGAGCGCACTCCTGCTGTTTCTCCCACCATCTC
GTGGATGTCGTCCCTCGGGTGGTGAGAGAACTTTGCAGTGGGCTGGAGCGCCCTTTGCGGAGAAGCACACGAAGT
TGGAATTGACCGGAGAATTGAGTTGCCGGGGAACAGAGCCCCGGCCGCCAGCGCGATGTTCCCGCAGAGCC
GGCACCCGACGCCGCACCAAGGCTGCAGGCCAGCCCTTCAAGTTCAGTATCGCGGAGTCCCTGGACCGGATTAAAG
AGGAATTCCAGTTCCTGCAGGCGCAGTATCACAGCCTTAAATTGGAATGAACATCAACAACAGGTGGCCCAGGCT
GTCGAACGTGCCAAACAGGTGACCATGGCAGAGTTGAATGCCATCATCGGGCAGCAGCAGTTGCAAGCTCAGCAT
CTTTCTTATGGCCACGGACCCCCAGTTCCCCTTACGCCTCACCCCTTCGGGACTTCAGCCTCCTGGAATCCCGCCC
CTCGGGGGCAGTGCCGGTCTTCTTGCACTGTCTAGTGCTCTGAGTGGGCAATCTCACTTGGCAATAAAAGATGAC
AAGAAGCATCAAGATGCAGAGCACCCACAGAGATGAGAGGCCCGGCAAGCCAGATTTAG

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FIGURE 6213

MNSPDLRRPAATKISAGRTAVTTPDSPAEFARRGGWPIGGAHSCCFSHHLVDVVPRVVRELCSGLERPLRRSTRS
WKL TGELSCRGTEPRPPPARCSRRAGTRRRTRLQASPSSSVSRSPWTGLKRNSSSCRRSITALNWNEHQQQVAQA
VERAKQVTMAELNAIIGQQQLQAQHLSYGHGPPVPLTPHPSGLQPPGIPPLGGSAGLLALSSALSGQSHLAIKDD
KKHQDAEHHRDERPGKPD

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FIGURE 6214A

CTGATCTCGGGGATTTCGGGTGCGGAGCCCTTGGCCTGGAGGCGATATGGGTGGTCCGTGGCCCCGGTTCAGTCGCT
TGCAGCAGCCCCGGGGAACAGGCCTGTCTGGCCCTGAGGGAGTCCCCTTTCTGAAGCTGTGGTGTCTGGACGACCT
GCTCTCTACATTGCTGGGCACCTGTAGGTGTCCCTCGAGAGCTCAGTTTTGAGGTTCAAGTCAGTGTGGCCATGA
AGGGGCTGCCATATGGGCTGATGCTGTGACCCTGGAGTCTGCCTCTCCTGCCAGTCCCCCTGCCCGGAACATGTG
GCTGCGGCTTGGCCCCGCCCTCGCTGTCCCTGAGCCCCAAGCCCACGGTTGGCAGGAGCCTGTGCCTCACCTGTG
GTTCTCAGTTTGGCGCTGAGGGCCAGTACCCAGGCCCCAGCACCCACAGTCAACACTCACTTTGGGAAGCTAAG
GGGTGCCGAGTACCACTGCCAGTGAGATCCTGGGGCCTGTGGACCAATACCTGGGGGTGCCCTACGCAGCTCC
CCCGATCGGCGAGAAACGTTTCTGCCCCCTGAACCACCCCCATCCTGGTTCGGGCATCCGGAACGCCACACACTT
TCCCCCAGTGTGCCCCCAGAACATCCACACAGCTGTGCCCGAAGTCATGCTGCCGGTCTGGTTCACTGCCAACTT
GGATATCGTCGCTACTTACATCCAGGAGCCCCAACGAAGACTGTCTCTACCTGAACGTCATGTGTCGACGGAGGA
TGGATCCGGCGCTAAGAAAAGGGGCGAGGACTTAGCGGATAATGACGGGGATGAAGATGAAGACATCCGGGACAG
TGGTGCTAAACCCGTCATGGTCTACATCCACGGAGGCTCTTACATGGAAGGGACAGGCAACATGATTGATGGCAG
CATCCCCGCCAGTTATGGCAATGTCTAGTTCATCACCTCAACTATCGGGTTGGAGTGCTAGGTTTCTGAGTAC
TGGAGATCAGGCTGCCAAGGGCAACTATGGGCTCCTTGACCAGATCCAGGCCCTCCGCTGGGTGAGCGAGAATAT
TGCCTTCTTCGGGGGAGACCCCCGCCGGATCACTGTCTTTGGCTCGGGCATTGGTGCATCCTGCGTCAGCCTCCT
CACGTTGTACATCACTCAGAGGGACTTTTCCAGAGAGCCATCATCCAAAGTGGCTCTGCTCTGTCCAGCTGGGC,
TGTGAACCTACCAACAGTGAAGTACACCAGCCTGCTGGCAGACAAAGTGGGCTGTAATGTGCTGGACACCGTGGA
TATGGTGAGTGTCTTCGGCAAAAGAGTGCCAAGGAGCTGGTAGAGCAGGACATCCAGCCAGCCCGCTACCACGT
GGCCTTGGCCCTGTGATTGATGGTGTGTCATTCTGATGACCCTGAGATCCTCATGGAGCAGGGCGAGTTCTT
CAACTATGACATCATGCTAGGTGTCAACCAGGGCGAGGGTCTCAAGTTTGTGGAAGGGGTGGTGACCCTGAGGA
TGGTGCTCTGGCACTGACTTTGACTATTCCGTCTCCAATTTTGTGGACAATCTGTATGGCTATCCTGAGGGTAA
GGACACCCCTGCGAGAGACCATCAAGTTCATGTATACAGACTGGGCAGACCCGTGACAACCCCTGAGACCCGCCGTAA
AACACTGGTGGCACTCTTCACTGACCACCAGTGGGTGGAGCCCTCAGTGGTGACAGCCGATCTGCATGCCCGCTA
CGGCTCGCCTACCTACTTCTACGCCTTCTATCATCACTGCCAGAGCCTCATGAAGCCTGCTTGGTTCAGATGCAGC
TCATGGGGATGAAGTACCCTATGTTTTTGGGGTTCTATGGTAGGCCCCACTGACCTTTTCCCTGCAACTTCTC
CAAGAATGATGTTATGCTCAGTGCTGTGCTGACCTATTGGACCAACTTTGCCAAGACTGGGGATCCCAACAA
GCCGGTCCCCCAGGACACCAAGTTCATTACACCAAGGCCAACCGCTTTGAGGAAGTGGCCTGGTCCAAATACAA
TCCCCGAGACCAGCTCTACCTTACATCGGGCTGAACCAAGGGTCCGAGATCATTACCGGGCCACTAAGGTGGC
CTTTTGGAAACATCTGGTGCCCCACCTATACAACCTGCATGACATGTTCCACTATACGTCCACCACCACCAAGT
GCCGCTCCGGATACCAACCCACAGCTCCACATCACCCGACAGGCCAATGGCAAGACTGGAGCACCACCGGCC
AGCCATCTACCTGCCTACAGCAACGAGAATGCCAGGGGTCTTGAACGGGGACCAAGATGCAGGCCACTCCT
GGTGGAGAACCCTCGTGACTACTCCACTGAATTAAGTGTACCATCGCCGTGGGGCCCTCCCTCCTGTTCTCTTAA
CGTTCTGGCCTTTCGCTGCCCTCTACTACCGTAAGGACAAACGGCGCCAGGAGCCCCCTGCGGCAGCCTAGCCCTCA
GCGGGGAGCCGGGGCCCCGGAGTTGGGAGCTGCTCCAGAGGAGGAGCTGGCAGCATTACAACCTGGGCCCCACCCA
CCACGAGTGTGAGGCCGGTCCCCCCATGACACGCTGCGCCTCACTGCATTGCCCGACTACACCCTGACCCTGCG
GCGCTCCCCGGATGACATCCCACTCATGACCCCCAACCCATCACTATGATCCCCAACTCCCTGGTAGGGCTGCA
GACATTGCACCCCTATAACACCTTTGCCGAGGGTTCAACAGTACCGGGCTGCCCCACTCACACTCCACTACCCG
GGTATAGCTCCAACCTCAGAGCACAGCCAATCTCCAGGCTCCCTCCCTCCCAGATCCAGGAACACATGCACACACA
CACACACACACACGACACACACACACACACATATGTATACGCACGCACCCACACCCCTACAGCAGATCC
ACCTGCACAAACATAGACAGATGTGGACATGCACCCGCTGTACAAAAACACAAATACGGAAGTAAACCTGAACA
AACCTTTAAATGGGGACGCAGATGAGTCTCGGTAAACCGAGGACCCATGAAACAGCAGCTGAAGCCAGCTCCC
TGAATCTGACCACAGACACTCCTGGGGGGCCTGAAAGCAACAGCTGGACACCCCTTGGTGCTCGCCTTCGGCCT
CTCTTGGAACTGCACCACCGACCAACTCCAGACTTGGGAGCTTTAAAGAGCAGGATAGCTCTTCTCCCCAGGAC
TTGGTCTTTTTTCTGGGTCTTGTGTTTGTGATTTTTCTTTTTTAATTTTGAACAAATGCTTTTTCAACCCATGA
GTGCTAAGAGCCTCTGGAAGGGAGGGCTTCAGGCCCGAAGGTCTCTCTGGCTCTAGGACCCCCAGTGCTCACACA
ATCAGACCAAGGAACAAGACCCCCAGGAAGGAAACAGATTTAAGCAAGACCATGGGGTGAAGGAGAAAGGGGCT
AGCACTGGATGGAGCTGGAGGGTCGTAGGGGAGAGATCTCCAACCTCTCTGTGTCCGTGTGGAGGGCTGCAGAG
CCTGCAGGGTGACCTGCTTCCCCAAAGGCCAACAGCATTGGCCTGGCCAGACCAGGTGACCTTAGATTTGGTGAA

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FIGURE 6214B

CAACGTACTATGGAAGCCACATCACTATTGGGCCCCCAGGTCTGATCTGGGTTTTGCCTCTGCCCTTGGGGAAAT
GCTATCAGAAATTCGCCCCATTTCTTTACAGTCTTTGTGTCTGTCATTTCTCTTCAAAAAGCGGTGTTTT
TGTTGTTGTTGGTTTTTTTTTTTTTTTAAAGAAAAGTTCTTAAACACTAACGAAAAAAAAA

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FIGURE 6215

MWLRGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQYLGVPYA
APPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPNEDCLYLNYYVPT
EDGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVYIHGGSYMEGTGNMIDGSIPASYGNVIVITLNYRVGVLGFL
STGDQAAKGNYGLLDQIQALRWVSENIAFFGGDPRRITVFGSGIGASCVSLLTLSSHSEGLFQRAIIQSGSALSS
WAVNYQPVKYTSLLADKVGCNVLDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGE
FLNYDIMLGVNQGEGLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRNPETR
RKTLVALFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVYVFGVPMVGPTDLFPCN
FSKNDVMLS AVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIGLKPRVRDHYRATK
VAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTHSSHITRRPNGKTWSTKRPAISPAYSNENAQGSWNGDQDAGP
LLVENPRDYSTEISVTI AVGASLLFLNLVLAFAALYYRKDKRRQEPLRQPSQRGAGAPELGAAPEEELAALQLGP
THHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTITMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHST
TRV

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FIGURE 6216

CTCTGGGAAAGGGCAGCAGCAGCCAGGTGTGGCAGTGACAGGGAGGTGTGAATGAGGCAGGATGAACTGGACAGG
TTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCATTGGCCGAGTATGGCTCTCGGTCATCTTCAT
CTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGGTGATGAGAAATCTTCCCTTCATCTGCAACAC
ACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCCCATCTCCCATGTGCGGGCTGTGGTCCCTGCA
GCTCATCCTAGTTTCCACCCCAGCTCTCCTCGTGGCCATGCACGTGGCTCACCAGCAACACATAGAGAAGAAAAT
GCTACGGCTTGAGGGCCATGGGGACCCCTACACCTGGAGGAGGTGAAGAGGCACAAGGTCCACATCTCAGGGAC
ACTGTGGTGGACCTATGTCATCAGCGTGGTGTTCGGGCTGTTGTTTGAGGCCGTCTTCATGTATGTCTTTTATCT
GCTCTACCCCTGGCTATGCCATGGTGCGGCTGGTCAAGTGCACGTCTACCCCTGCCCCAACACAGTGGACTGCTT
CGTGTCGCGCCCCACCGAGAAAACCGTCTTCACCGTCTTCATGCTAGCTGCCTCTGGCATCTGCATCATCCTCAA
TGTTGGCCGAGGTGGTGTACCTCATCATCCGGGCTGTGCCCGCCGAGCCAGCGCCGCTCCAATCCACCTTCCCG
CAAGGGCTCGGGCTTCGGCCACCGCCTCTCACCTGAATACAAGCAGAATGAGATCAACAAGCTGCTGAGTGAGCA
GGATGGCTCCCTGAAAGACATACTGCGCCGACGCCCTGGCACCGGGGCTGGGCTGGCTGAAAAGAGCGACCGCTG
CTCGGCCTGCTGATGCCACATAACCAGGCAACCTCCCATCCCACCCCGACCCCTGCCCTGGGCGAGCCCCCTCCTTC
TCCCTGCCGGTGACAGGCCTCTGCCTGCTGGGGATTACTCGATCAAAACCTTCCTTCCCTGGCTACTTCCCTT
CCTCCCGGGGCTTCCTTTTGAGGAGCTGGAGGGGTGGGGAGCTAGAGGCCACCTATGCCAGTGCTCAAGGTTAC
TGGGAGTGTGGGCTGCCCTTGTTGCCTGCACCTTCCCTCTTCCCTCTCCCTCTCTCTGGGACCACTGGGTACAA
GAGATGGGATGCTCCGACAGCGTCTCCAATTATGAACTAATCTTAACCCCTGTGCTGTGATACACCTGTTTCTG
GAGTCACATCAGTGAGGAGGGATGTGGGTAAGAGGAGCAGAGGGCAGGGGTGCTGTGGACATGTGGGTGGAGAAG
GGAGGGTGGCCAGCACTAGTAAAGGAGGAATAGTGCTTGCTGGCCACAAGGAAAAGGAGGAGGTGTCTGGGGTGA
GGGAGTTAGGGAGAGAGAAGCAGGCAGATAAGTTGGAGCAGGGGTGGTCAAGGCCACCTCTGCCTCTAGTCCCC
AAGGCCTCTCTCTGCCTGAAATGTTACACATTAAACAGGATTTTACAGT

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FIGURE 6217

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPISHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMLRLEGHGDPHLHEEVKRHKVHISGTLWWTYVISVVFRLLFEAVFM
YVFYLLYPGYAMVRLVKCDVYPCPNTVDCFVSRPTEKTVFTVFMLAASGICIILNVAEVVYLIIRACARRAQRRS
NPPSRKGSFGHRLSPEYKQNEINKLLSEQDGLKDILRRSPGTGAGLAEKSDRCSAC

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FIGURE 6218

GTGTGAATGAGGCAGGATGAAGTGGACAGGTTTGTACACCTTGCTCAGTGGCGTGAACCGGCATTCTACTGCCAT
TGGCCGAGTATGGCTCTCGGTCATCTTCATCTTCAGAATCATGGTGCTGGTGGTGGCTGCAGAGAGTGTGTGGGG
TGATGAGAAATCTTCCTTCATCTGCAACACACTCCAGCCTGGCTGCAACAGCGTTTGCTATGACCAATTCTTCCC
CATCTCCCATGTGCGGCTGTGGTCCCTGCAGCTCATCCTAGTTTCCACCCAGCTCTCCTCGTGGCCATGCACGT
GGCTCACCAGCAACACATAGAGAAGAAAATGCCAAGGCCTCTCTCTGCCTGAAGTGTACACATTAAACAGGATT
TTACAGTAAATGAAGAGGTGGCTTGTGTGTTTGTCAAGTTCTTTCTCCTGCAACCTCTGACCTCCCCCAGGATGA
GCTGGCCTTGTTTTTTTACTGATTAAGAAAGGAACAGGGCAAAAGAAGTAGTTACTTGAGTAGCTGAAGCTGCAA
ATGAGGAAATCACTGTACTTCTGGGCCGCAGAGCCAGCCCCGAGCCATTCTCCTGTTGCTTTTGTGTTGTG
GTTCCTTGCTTTTTTCAATTGTCTAATAACAGCTTTATTGGGATTTAGTTTACATACCTCCTTCCTCTGATTTTGAA
AAGATTAAAAATGACAACCTCCCTCTG

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FIGURE 6219

MNWTGLYTLLSGVNRHSTAIGRVWLSVIFIFRIMVLVVAESVWGDEKSSFICNTLQPGCNSVCYDQFFPI SHVR
LWSLQLILVSTPALLVAMHVAHQHIEKKMPRPLSA

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FIGURE 6220

TAATTCTAAATGGTGGTAGGAGGAGAACAGGCATTGCTTTCACAGCCCCTGGGGGCTACCTCAGTTTGCTATAG
ATAGCAGTCTTTTTTTTTTTGGAGACAGAGTTTCCCTCTTGTTGCCAGGCTAGAGTGCAATGGCATGGTCTTGG
CTCACTGCAACCTCCACCTCCCGGGTTCAAGCGAGTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGACTACAGGTG
CTTGCCACCATGCCCCGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTACACCATGTTGGCCAGGCTGGTCTCG
AACTCCTGACCTCAGGTGATCCACCAGCCTCGGCCTCCCAATTTTTGTATTTTTATTAGAGACTGAGTTTGACCAC
GTTGGTCAGGCTGTTCTTGAACCTCTGACCTCAGATAATCTGCCCCGCTCGGTTTCCCAAAGTGCTGGGATTACT
GGCGTGAGCCACCAAGCCCGGCCAGATAGCAATCTTTAGGACTGCTGGTATCCATTAAATGTAACCTCAAGGTC
TTTATTTTTGAATCTTGAGCAAACCTCAGTCTCTATACTTAATCTAGGAGTTAAGTAAATGCCACCGTCTGACTGG
CCAGTCTGATTGACTATGTTTGTGGAGGGAAAGTCAATGAAGGCTAGGCATTATCACATAAAATAGTTGTGAATC
CAAATACTTCATGGCTCATGCAATCCTGGGGTTGTTTTGGTTATGGTGTAAATGCCAAACTGGATAGTTTGG
TTGTTTCTGTTTTGTTTTCTTTTTCTTTTTCTTTTTGAGACAGAGTTTTGCTCTTGTCGCCAGGCTGGAG
TGCAGTGGTGCAATCTGGCTCCCTGCAACCTCCGCCTCCCAGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGA
GTAGCTGGGATTACAGGCATGCGCCACCACTTTTGGGGTTATCCACTAGAGTTCTAAACAGACTTAGTCACCAC
TCTACCTACCATCAGGAGCCTTGAATAGTTGAATGGAATAGCCTCCAGTGGAGGGACTACAGATGGGTGGGAA
GCTTCCAACAATGGCTCTGTTACAGTGTGCTCTCTTTTTCTCTTTAAGACCCACCAACAACCTGAACGCTTTGG
TCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGGAACCTCCTCCTGCATTCAACCGTGCAGCTCCTGGAGC
TGAATTTGCCCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGCTAGTTTCTCAAACCCCTAAAAAGAAGG
ACCTTTTTTGACTAGCCAGAATTCTACCCTGAAAAAGTGTTAGGGATTCTTCCAATAGTTAGATCTACCCTGC
CTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGGCAAGGGAGGGGTGGTATTAAACAAGTCAATTCTGTGTGG
TATATTGTTTAAATCAGTTCTGTGTGGTGCATTCTTGAAGTCTCTAATGTGACTGTTGAGGGCCTGGGGAAACCAT
GGCAAAGTGGAATCCAGTTAGAGCCCATTAATCTTGTATCATTCCGGTTTTTTTTTTTTTTTGTCCATCTTGTTTCAT
TTGCTTGCCCCGCCCCGAGACGGAGTCTTACTCTGTGCGCCAGGCTGGAGTGTAGTGGCATGATCTCGGCTCAC
TGCAATCTCTGCCTCCCGGGTTCAAGCTTGTCCAGTTGATCTTGAACCTCCTGACCTCGTGATCTACCCACCTCG
GCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTCTTATCCTTACACTCCCC
CAGCCCCAGAGAACTGCCACATACACCACAAAAACCAACATCCCCCAATGACCTTAGCCCCATTGCTCCATTCT
ACTCCCAGGTGAGAATTCAGGCAAACGTCCACAAAGGTCACAGGCAGCGTACATACGGTCTGTTATACCCCATAT
TATTACCCCTTCATGTCCTAAAGAAGACATTTTTCTCTTAGAGATTTTCATTTTAGTGATCTTTAAAAAAAATC
TTGTGTTAACTTGCTCCATCTTTTTCTTGGGTGAGGACACCCAGGAATGACCTTTTGTGTCTATGATGTTGCT
GTTACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGTTACTGTATACTGAAGGTCTGACAGTAGC
TCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGATTTTTTTTTTTCATTGGTGTACTGTGTTTGATTTGTCTC
ATATATTTGGAGTTTTTCTGAAAAATGGAGCAGTAATGCAGCATCAACCTATTAAAATACATTTTAAGCCTTTT

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FIGURE 6221

MQSNKTFNLEKQNHTPRKHHQHQQHHQQQQQQPPPPPIPANGQQASSQNEGLTIDLKNFRKPGEKFTQRSR
LFVGNLPPDITEEEMRKLFEKYGKAGEVFIHKDKGFGFIRLETRTLAEIAKVELDNMPLRGKQLRVRFACHSASL
TVRNLPQYVSNELLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAARKALDRCSEGSFLLTTFFRPVTVE
PMDQLDDEEGLPEKLVIKNQFHKEREQPPRFAQPGSFYEYAMRWKALIEMEKQQDQVDRNIKEAREKLEMEM
EAARHEHQVMLMRQDLMRQEELRRMEELHNQEVQKRKQLELRQEEERRRREEEMRRQQEEMMRQQEGFKGTFP
DAVYLPCARDVPDQS

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FIGURE 6222

GCCAGATCTGGAAGGTGGCTGCGGAACGGTTTTTAAGCGGAAGATGGAGGAGCCGGAGGAACCGGCGGACAGTGGG
CAGTCGCTGGTCCCGGTTTATATCTATAGTCCCGAGTATGTCAGTATGTGTGACTCCCTGGCCAAGATCCCCAAA
CGGGCCAGTATGGTGCACTTTTGATTGAAGCATATGCACTGCATAAGCAGATGAGGATAGTTAAGCCTAAAGTG
GCCTCCATGGAGGAGATGGCCACCTTCCACACTGATGCTTATCTGCAGCATCTCCAGAAGGTCAGCCAAGAGGGC
GATGATGATCATCCGGACTCCATAGAATATGGGCTAGGTTATGACTGCCCAGCCACTGAAGGGATATTGACTAT
GCAGCAGCTATAGGAGGGGGCTACGATCACAGCTGCCCAATGCCTGATTGACGGAATGTGCAAAGTAGCAATTAAC
TGGTCTGGAGGGTGGCATCATGCAAAGAAAGATGAAGCATCTGGTTTTTGTATCTCAATGATGCTGTCTCTGGGA
ATATTACGATTGCGACGGAAATTTGAGCGTATTCTCTACGTGGATTTGGATCTGCACCATGGAGATGGTGTAGAA
GACGCATTCACTTTACCTCCAAAGTCATGACCGTGTCCCTGCACAAATTCTCCCCAGGATTTTCCCAGGAACA
GGTGACGTGTCTGATGTTGGCCTAGGGAAGGGACGGTACTACAGTGTAATGTGCCCATTCAGGATGGCATACAA
GATGAAAAATATTACCAGATCTGTGAAAGTGTAAGGAAGTATACCAAGCCTTTAATCCCAAAGCAGTGGTC
TTACAGCTGGGAGCTGACACAATAGCTGGGGATCCCATGTGCTCCTTTAATGACTCCAGTGGGAATTGGCAAG
TGCTTTAAGTACATCCTTCAATGGCAGTTGGCAACACTCATTTTGGGAGGAGGAGGCTATAACCTTGCCAACACG
GCTCGATGCTGGACATACTTGACCGGGGTCATCCTAGGGAACACTATCCTCTGAGATCCCAGATCATGAGTTT
TTCACAGCATATGGTCCTGATTATGTGCTGGAATCACGCCAAGCTGCCGGCCAGACCGAATGAGCCCCACCGA
ATCCAACAAATCCTCAACTACATCAAAGGGAATCTGAAGCATGTGGTCTAGTTGACAGAAAGAGATCAGGTTTCC
AGAGCTGAGGAGTGGTGCCTATAATGAAGACAGCGTGTATGCAAGCAGTTTGTGGAATTTGTGACTGCAGGGA
AAATTTGAAAGAAATTACTTCCTGAAAATTTCCAAGGGGCATCAAGTGGCAGCTGGCTTCTGGGGTGAAGAGGC
AGGCACCCAGAGTCTCAACTGGACCTAGGGGAAGAAGGAGATATCCACATTTAAAGTTCTTATTTAAAAAAA
CACACACACAAATGAAATTTTTAATCTTTGAAAATTATTTTTAAGCGAATTGGGGAGGGGAGTATTTAATCA
TCTTAAATGAAACAGATCAGAAGCTGGATGAGAGCAGTCACCAGTTTGTAGGGCAGGAGGCAGCTGAGAGGCAGG
GTTTGGGCCTCAGGACCATCCAGGTGGAGCCCTGGGAGAGAGGGTACTGATCAGCAGACTGGGAGGTGGGGAGAA
GTCCGCTGGTGTGTTTTAGTGTATATATCTTTGGTTTTTTTAATAAAATCTTTGAAAACCTAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 6223

MEEPEEPADSGQSLVPVYIYSPEYVSMCDLAKIPKRASMVHSLIEAYALHKQMRIVKPKVASMEEMATFHTDAY
LQHLQKVSQEGDDDDHPDSIEYGLGYDCPATEGIFDYAAAIGGATITAAQCLIDGMCKVAINWSGGWHHAKKDEAS
GFCYLNDVAVLGILRLRRKFERILYVDLDLHHGDGVEDAFSFTSKVMTVSLHKFSPGFFPGTGDVSDVGLGKGRIY
SVNVPIQDGIQDEKYYQICESVLKEVYQAFNPKAVVLQLGADTIAGDPMCSFNMTPVGIGKCLKYILQWQLATLI
LGGGGYNLANTARCWTYLTGVILGKTLSEIPDHEFFTAYGPDYVLEITPSCRPRNEPHRIQQILNYIKGNLKH
VV

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FIGURE 6224

AAGACGGAGGTCCTCTTTCTTGCCTAACGCAGCCATGGCTCGTGGTCCCAAGAAGCATCTGAAGCGGGTGGCAG
CTCCAAAGCATTGGATGCTGGATAAAATTGACCGGTGTGTTTGCTCCTCGTCCATCCACCGGTCCCCACAAGTTGA
GAGAGTGTCTCCCCCTCATCATTTTCTGAGGAACAGACTTAAGTATGCCCTGACAGGAGATGAAGTAAAGAAGA
TTTGTCATGCAGCGGTTTCAATAAAATCGATGGCAAGGTCCGAAGTATATAACCTACCCTGCTGGATTTCATGGATG
TCATCAGCATTGACAAGACGGGAGAGAATTTCCGTCTGATCTATGACACCAAGGGTCGCTTTGCTGTACATCGTA
TTACACCTGAGGAGGCCAAGTACAAGTTGTGCAAAGTGAGAAAGATCTTTGTGGGCACAAAAGGAATCCCTCATC
TGGTGACTCATGATGCCCCGACCATCCGCTACCCCGATCCCTCATCAAGGTGAATGATACCATTTCAGATTGATT
TGGAGACTGGCAAGATTACTGATTTTCATCAAGTTCGACACTGGTAACCTGTGTATGGTGACTGGAGGTGCTAACC
TAGGAAGAATTGGTGTGATCACCAACAGAGAGAGGCACCCTGGATCTTTTGACGTGGTTCACGTGAAAGATGCCA
ATGGCAACAGCTTTGCCACTCGACTTTCCAACATTTTGTATTGGCAAGGGCAACAAACCATGGATTTCTCTTC
CCCGAGGAAAGGTATCCGCCTCACCATTGCTGAAGAGAGAGACAAAAGACTGGCGGCCAAACAGAGCAGTGGGT
GAAATGGGTCCCTGGGTGACATGTCAGATCTTTGTACGTAATTAAAAAATATTGTGGCAGGATTAATAGCAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 6225

MARGPKKHLKRVAAPKHWMLDKLTGVFAPRPSTGPHKLRECLPLIIFLRNRLKYALTGDEVKKICMQRFIKIDGK
VRTDITYPAGFMDVISIDKTGENFRLIYDTKGRFAVHRITPEEAKYKLCKVRKIFVGTGKIPHLVTHDARTIRYP
DPLIKVNDTIQIDLETGKITDFIKFDTGNLCMVTGGANLGRIGVITNRERHPGSFDVVHVKDANGNSFATRLSNI
FVIGKGNKPWISLPRGKGIRLTIAEERDKRLAAKQSSG

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FIGURE 6226

ATGGGTCCACGTCTTGACGCTACAGCTGCTGCAGCTACTCCTGCTGTCCGCACCGTTCCACAGTATAAATATGCT
GCGGGAGTTTGCAATCCTCAGCAACATCTTAATGCACAGCCACAAGTTACAGTGCAACAGCCTGCTATTCATGTA
CAAGGTCAGGAACCTTTGACTGTTTCCATGTTGGCATCTGCCCCCTCAAGAGCAAAGCAAATGTTGGGTGAATGG
CTGTTTCCTCTTATTCAAGCCATGCACCCTACTCTTGCCGGTAAAATCACTGGCGTGTTGTTGGAGATTGATAAT
TCAGAACTTCTTCATATGCTCAAGTCTCCAGAGTCACTCCATTCTAAGGTTGATGAAGCTGTAGCTGTACTACAA
GCCCACCAAGCTAAAGAGACTGCCCAGAAAGCAGTTAACAGTGCCACCGGTGTTCCAACGTGTTTAA

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FIGURE 6227

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTCCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTACCATGGCAAACTGGAAGAGTCTACA
ATGTTACCCAGCATACTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAGAGCCGAGATAGCTTCCTGAAACGCATGAATGAAAATGATCAGAGAA
AGAAATAAGCCAAAGAGAAAGGTACCTGTGTTCAACTAAAGTGCCAGCCTGCTCCACCCAGAGAAGCACACTTG
TGAGAACCAATGGGAAGGAGCCTGAGCTGCTGGAACCTATTCTCTATGAATTTATGGCATAATAGGTGTTAAAA
ATAAATAAAAGACATCTGGGCTGT

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FIGURE 6228

ATGAGATCTGGTTGTTCCCTGGGTATCACCAATGATGTTACCCAGTCCATGGAGATTAGTTCCACCTTCTGGGTG
TTGGGAGTAGTTCCAGCACTTTCCAGAGCCTTCTCTCTCCTGTGCAAAATAGCAACTCTTAAGGAAAACTCATT
GTACCAGTTGCGGAAGAAGAGGCAACAGTCCAAAACAATAAGATCACTGTAGTGAGTGTTGGACAAGTTGGTATG
GCGTGTGCTATCAGCATTCTGGGAAAATCTCTGGCTGATGAATTTGCTTTTGTGGATGTTTTGGAAGATAAGCTT
AAAGGAGAAATGATGGATCTGCAGCATGGGAGCTTATTTCTCAAGAAGCTTAAAATTGTGGCAGATAAAGATTAT
TCTGTGACTGCCAGTTATAAGATTGTAGTGGTAACTTCAGGAGTCCTTCAGCAAGAGGGGGAGAGGCGGGACATT
CTTACGTATGTTACCTGGAAAATAAGTGGATTACTCAAACACCATGTGATTGGAAGTGGATGTAATCCGGATTCT
GCTAGATTTCACTGCCTTATGGATGAAAAATTTGGCATTTCATCCCAGCAGCTGCCATGGAAGGATTTTGGGGGAA
CATAGTGA CTCAAGTGTGGCTGTGTGGATTGGCATGAATGTGACAGGTTTTTCTCTCCAGGAATTGAATCCAGAA
ATAGGAACTGACAATGATAGTAAAAATTGGAAAGAAGTGCATAAGATGGTGGTTGAAAATGCCTATGAAGTCAAC
AAGCTAAATGGATATACCCACTGGGATATTGGATTAAAGTGTGGCTGATCTCATTGAATCCATGTTGAAAAATCTA
TCCAGGATTCATCTCGTGTCAACAATGGTAAAGGGGATGTATGGCATCGAGAATGAAGTCTTCCTGAGCCTTCCA
TATATCCTCAATGCCCGGGGATTAACCAGCGTTATCAACCAGAAGCTAAAGGATGATGAGGTTGCTCAGTTCAAG
AAAAGTACAGATACCCCGTGGGACATCCAGAAGGACCTAAAAGACCTGTGA

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FIGURE 6229

ACTTATAGAAGGGAGAGGAGCGAACATGGCAGCGCGTTGGCGGTTTTGGTGTGTCCTGTGACCATGGTGGTGGC
GCTGCTCATCGTTTGGCGACGTTCCCTCAGCCTCTGCCCAAAGAAAGAGGAGATGGTGTTATCTGAAAAGGTTAG
TCAGCTGATGGAATGGACTAACAAAAGACCTGTAATAAGAAATGAATGGAGACAAGTTCCGTCGCCTTGTGAAAGC
CCCACCGAGAAATTACTCCGTTATCGTCATGTTCACTGCTCTCCAACATGCATAGACAGTGTGTCGTTTGAAGCA
AGCTGATGAAGAATTCCAGATCCGGCAAACCTCGGCGATACTCCAGTGCATTACCAACAGGATATTTTTTGC
CATGGTGGATTTTGATGAAGGCTCTGATGTATTTCAGATGCTAAACATGAATTCAGCTCCAACCTTTCATCAACTT
TCCTGCAAAGGGAAACCCAAACGGGGTGATACATATGAGTTACAGGTGCGGGGTTTTTCAGCTGAGCAGATTGC
CCGGTGGATCGCCGACAGAACTGATGTCAATATTAGAGTGATTAGACCCCAAATTATGCTGGTCCCCTTATGTT
GGGATTGCTTTTGGCTGTTATTGGTGGACTTGTGTATCTTCGAAGAAGTAATATGGAATTTCTCTTTAATAAAAC
TGGATGGGCTTTTGCAGCTTTGTGTTTTGTGCTTGCTATGACATCTGGTCAAATGTGGAACCATATAAGAGGACC
ACCATATGCCCATAGAATCCCCACACGGGACATGTGAATTATATCCATGGAAGCAGTCAAGCCCAGTTTGTAGC
TGAAACACACATTGTTCTTCTGTTTAAATGGTGGAGTTACCTTAGGAATGGTGCTTTTATGTGAAGCTGCTACCTC
TGACATGGATATTGGAAGCGAAAGATAATGTGTGTGGCTGGTATTGGACTTGTGTATTATTCTTCAGTTGGAT
GCTCTCTATTTTATGATCTAAATATCATGGCTACCCATACAGCTTTCTGATGAGTTAAAAAGGTCCTCAGAGATAT
ATAGACACTGGAGTACTGGAATTGAAAAACGAAATCGTGTGTGTTTGAAGAAGAATGCAACTTGTATATT
TGTATTACCTCTTTTTTCAAGTGATTTAAATAGTTAATCATTTAACCAGAAAGATGTGTAGTGCCTTAACAAG
CAATCCTCTGTCAAAATCTGAGGTATTTGAAAATAATTATCCTCTTAACCTTCTCTTCCAGTGAACCTTATGGA
ACATTTAATTTAGTACAATTAAGTATATTATAAAAAATTGTAAACTACTACTTTGTTTTAGTTAGAACAAAGCTC
AAAACACTTTTAGTTAACTTGGTCATCTGATTTTATATTGCCTTATCCAAAGATGGGGAAAGTAAGTCTTGACCA
GGTGTTCACCATATGCCTGTTACAGATAACTACATTAGGAATTCATTCTTAGCTTCTTCATCTTTGTGTGGATG
TGTATACTTTACGCATCTTTCCTTTTGAGTAGAGAAATTATGTGTGTGTCATGTGGTCTTCTGAAATGGAACACCA
TTCTTCAGAGCACACGTCTAGCCCTCAGCAAGACAGTTGTTTCTCCTCCTCCTTGCATATTTCTACTGCGCTCC
AGCCTGAGTGATAGAGTGAGACTCTGTCTCAAAAAAAGTATCTCTAAATACAGGATTATAATTTCTGCTTGAGT
ATGGTGTAACTACCTTGTATTTAGAAAGATTTAGATTCAATCCATCTCCTTAGTTTTCTTTTAAGGTGACCCA
TCTGTGATAAAAAATATAGCTTAGTGCTAAATCAGTGTAACCTATACATGGCCTAAATGTTTCTACAAATTAGA
GTTTGTCACTTATTCCATTTGTACCTAAGAGAAAAATAGGCTCAGTTAGAAAAGGACTCCCTGGCCAGGCGCAGT
GACTTACGCCTGTAATCTCAGCACTTTGGGAGGCCAAGGCAGGCAGATCACGAGGTCAGGAGTTCGAGACCATCC
TGGCCAAACATGGTGAAACCCCGTCTCTACTAAAAATATAAAAAATTAGCTGGGTGTGGTGGCAGGAGCCTGTAATC
CCAGCTACACAGGAGGCTGAGGCACGAGAATCACTTGAACCTCAGGAGATGGAGGTTTCAGTGAGCCAAGATCACA
CCACTGCACTCCAGCCTGGCAACAGAGCGAGACTCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 6230

AAGCCTCCGGAGCGCACGTCGGCAGTCGGCTCCCTCGTTGACCGAATCACCGACCTCTCTCCCCAGCTGTATTTT
CAAAATGTCGCTTTTCTAACAAGCTGACGCTGGACAAGCTGGACGTTAAAGGGAAGCGGGTCGTTATGAGAGTCGA
CTTCAATGTTTCTATGAAGAACAACCAGATAACAAACAACCAGAGGATTAAGGCTGCTGTCCCAAGCATCAAATT
CTGCTTGGACAATGGAGCCAAGTCGGTAGTCCTTATGAGCCACCTAGGCCGGCCTGATGGTGTGCCCATGCCTGA
CAAGTACTCCTTAGAGCCAGTTGCTGTAGAACTCAAATCTCTGCTGGGCAAGGATGTTCTGTTCTTGAAGGACTG
TGTAGGCCCAAGAAGTGGAGAAAGCCTGTGCCAACCCAGCTGCTGGGTCTGTCATCCTGCTGGAGAACCTCCGCTT
TCATGTGGAGGAAGAAGGGAAGGGAAGATGCTTCTGGGAACAAGGTTAAAGCCGAGCCAGCCAAAATAGAAGC
TTTCCGAGCTTCACTTTCCAAGCTAGGGGATGTCATGTCAATGATGCTTTTGGCACTGCTCACAGAGCCACAG
CTCCATGGTAGGAGTCAATCTGCCACAGAAGGCTGGTGGGTTTTTGATGAAGAAGGAGCTGAACTACTTTGCAA
GGCCTTGGAGAGCCCAGAGCGACCTTCCCTGGCCATCCTGGGCGGAGCTAAAGTTGCAGACAAGATCCAGCTCAT
CAATAATATGCTGGACAAAGTCAATGAGATGATTATTGGTGGTGGAAATGGCTTTTACCTTCCTTAAGGTGCTCAA
CAACATGGAGATTGGCACTTCTCTGTTTGATGAAGAGGGAGCCAAGATTGTCAAAGACCTAATGTCCAAAGCTGA
GAAGAATGGTGTGAAGATTACCTTGCTGTGACTTTGTCACTGCTGACAAGTTTGATGAGAATGCCAAGACTGG
CCAAGCCACTGTGGCTTCTGGCATACTGCTGGCTGGATGGGCTTGGACTGTGGTCCTGAAAGCAGCAAGAAGTA
TGCTGAGGCTGTCACTCGGGCTAAGCAGATTGTGTGGAATGGTCCTGTGGGGTATTGAATGGGAAGCTTTTGC
CCGGGGAACCAAAGCTCTCATGGATGAGGTGGTGAAGCCACTTCTAGGGGCTGCATCACCATCATAGGTGGTGG
AGACACTGCCACTTGCTGTGCCAAATGGAACACGGAGGATAAAGTCAGCCATGTGAGCACTGGGGGTGGTGCCAG
TTTGGAGCTCCTGGAAGGTAAAGTCCTTCCCTGGGGTGGATGCTCTCAGCAATATTAGTACTTTTCTGCCTTTTA
GTTCTGTGCACAGCCCCCTAAGTCAACTTAGCATTTTCTGCATCTCCACTTGGCATTAGCTAAAACCTTCCATGT
CAAGATTAGCTAGTGGCCAAGAGATGCAGTGCCAGGAACCCCTTAAACAGTTGCACAGCATCTCAGCTCATCTTC
ACTGCACCCTGGATTTGCATACATTCTTCAAGATCCCATTGAAATTTTTAGTGACTAAACCATTTGTGCATTCTA
GAGTGATATATTTATATTTTGCCTGTTAAAAAGAAAGTGAGCAGTGTTAGCTTAGTTCTCTTTTGATGTAGGTT
ATTATGATTAGCTTTGTCACTGTTTCACTACTCAGCATGGAACAAGATGAAATTCATTTGTAGGTAGTGAGAC
AAAATTGATGATCCATTAAGTAAACAATAAAAGTGTCATTG

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FIGURE 6231

MSLSNKLTLDKLDVKGKRVVMRVDFNVPMKNNQITNNQRIKAAVPSIKFCLDNGAKSVVLMShLGRPDGVPMPDK
YSLEPVAVELKSLLGKDVLFLLKDCVGPEVEKACANPAAGSVILLENIRFHVVEEGKGKDASGNKVKAEPKIEAF
RASLSKLGDVYVNDAGTAHRAHSSMVGVNLPQKAGGFLMKKELNYFAKALESPPERPFLAILGGAKVADKIQLIN
NMLDKVNEMIIGGGMAFTFLKVLNNMEIGTSLFDEEGAKIVKDLMSKAENGVKITLPVDFVTADKFDENAKTGQ
ATVASGIPAGWMGLDCGPESKKYAEAVTRAKQIVWNGPVGVFWEAFARGTKALMDEVVKATSRGCITIIIGGD
TATCCAKWNTEDKVSHVSTGGGASLELLEGGVLPGVDAISNI

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CTCCCTGCCTCCGCGCTGACGCCCTGCCGTAGCCGCCCTGAGCCGCCACCACCGCCTCTGAGCAGAAGATGAG
CTGTGCCACCTACGTATGCTGATCTTGGCAAATCTGCCAGGGATGTCTTCACTGAGGGCTATGGATTTGGCTTAA
TAAAGCTTGATTTGAAAAACAAATATGAGAATGGATTGGAATTTACAAGCTCAAGCTCAGCCAACACAGACCACC
AAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTACGGCCTCACGTTTACAGAGAAATGGAACACC
GACAATACACTAGGCACCAAGATTACTGTGGAAGATCAGCTTGCACGTGGACTGAAGCTGACCTTCGATTTCATCC
TTTTACCTAACACTGGGAAAAAAAATGCTAAAATCAAGACAGGGTACAAGCGGGAGCACATTAACCTGGGCTGC
GACATGGTTTTTCGACATTGTTGGGCCTTCCATCCGGGGTGCTCTGGTGCTGGGTTACGAGGGCTGGCTGGCCGGC
TATCAGATGAATTTGAGACTACAAAATCCCGAGTGACCCAGAGCAACTTTGCAATTGGCTACAAGACTGATGAA
TTCCAGCTTCACACAAATGTGAATGACGGGACAGAGTTTGGCGGCTCCATTTACCAGAAAAGTGAACAAGAAGTTG
GAGACCACCGTCAATCTTGCTGGACAGCAGGAAACAGTAACACGCGCTTCGGAATAGCAGCCAAGTATCAGATT
GACCCTGACGCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTGATAGGTTTAGGATACACTCAGACTCTAAAG
CCAGGTATCAAACCTGACACTGTCAGCTCTTCTGGATGGCAAGAACGTCAATGCTGGTGGCCACAAGCTTGGTCTA
GGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTTAATTTTAACTATTTTGAGCATAGCTACCTTC
AGAATTTAGTGTTATCTTTAATGTTGTATGTCTGGGATGCAAGTATTGCTAAATATGTTACCCCTCCAGGTTAA
AGATGATTACAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAAACGCATTTCCAAAAAAGGTTCTTTACGTG
GTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGGTGCCAGGTTTCTTTTTCATCTAGAGATGGCTGCGAGTGGA
AGCTGATAATATGTAGGCACCTTTGTAAATTCATATTGAGTAAATGAATGAAATTGTGATTTCTGAGAATCGAAC
CATGGTTTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGTGTGTACAAGCTCACCTGAATGGGACTTTT
TTAGACAGATCTTCATGACCTGTTCCACCCAGTTCATCATCATCTCTTTTACACCAAAGGTCTGCAGGGTGT
GGTCACCTCTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTAGATGTGATGAAACCAATAATTACAGGACTTATTCC
TTCTTGTTGTTGTTTTTTTTTGGCCCTTGACCCAGAGTATGAAATAGCTTCCAGGAGCTCCAGCTATAAGCTTGG
GAGTGTCTGTGTGATTGTAATCACATGGTGACAGCACTCAGAATCTAAATTGGACTTCTGCTGTATTCTCACCAC
TCAATTTGTTTTTTTAGCAATTTAATGGCTACATTTTAGAGTCTTCCATTTTTTGTGGAATTAGATCCTCCCCTTC
AAATGCTGTAATTAACATCACTTAAGAAAACTTGAATAAAATGTTGAAACCTC

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FIGURE 6233

TAGCTGGATTCCAGCCATTGCTGCAGCTGCTCCACAGCCCTTTTCAGGACCCAAACAACCGCAGCCGCTGTTCCC
AGGATGGTGATCCGTGTATATATTGCATCTTCCTCTGGCTCTACAGCGATTAAAGAAGAAACAACAAGATGTGCTT
GGTTTCCTAGAAGCCAACAAAATAGGATTTGAAGAAAAAGATATTGCAGCCAATGAAGAGAATCGGAAGTGGATG
AGAGAAAATGTACCTGAAAATAGTCGACCAGCCACAGGTTACCCCTGCCACCTCAGATTTTCAATGAAAGCCAG
TATCGCGGGGACTATGATGCCTTCTTTGAAGCCAGAGAAAATAATGCAGTGTATGCCTTCTTAGGCTTGACAGCC
CCACCTGGTTCAAAGGAAGCAGAAGTGCAAGCAAAGCAGCAAGCATGAACCTTAAGCACTGTGCTTTAAGCATCC
TGAAAAATGAGTCTCCATTGCTTTTATAAAATAGCAGAATTAGCTTTGCTTCAAAAGAAATAGGCTTAATGTTGA
AATAATAGATTAGTTGGGTTTTACATGCAAAACATTCAAAATGAATACAAAATTAATAATTTGAACATTATGGTGA
TTATGGTGAGGAGAATGGGATATTAACATAAAATTATATTAATAAGTAGATATCGTAGAAAATAGTGTGTTACCT
GCCAAGCCATCCTGTATACACCAATGATTTTACAAAGAAAACACCCTTCCCTCCTTCTGCCATTACTATGGCAAC
TTAAGTGTATCTGCAGCTCTACATTAAAAAGGAGAAAGAGAAATAACCTGTCTCTCATTCCCTAAGTTGCCTCATT
AATTTTCATGAACAAGAATATGTACCTTTTGTATGCTATATTACTGCGATTAAAAAGTTCTTGCAGGTAATGTTT
ATGATATGTTAAACGTTGTAATTTCCCTATCGTAATTATAACATTCCCATTCCTTTGTAGATGAACTTCTACATA
TTGAACCACAGATTTTCTGAGCTTCTAAATGTAGCCTTTCATTGCACATTTAGTGATCAGAATAGATATCCTTT
TACACGCACAAAAGCAATAGATTCATTAGTGACAAAGTTCCTTGTTTAACTACACAGCTATGATGGAATGATAT
ATCCAAGTTCCCTGCCTCAGTGAAATATGCATATGTATATCATGAAAGTGGGATGCCAAGTAAGCTTAAATGGC
ATTCTCTAGCAAAGAGATTAGACTTTTAAATAACTCTTATAAAACAGGTTGGCGATCATTTCCTCAAGATTGGTTT
CCCTTGAGTTTTTGTCTAAAACAAATCTTAGTAGTTTTGCCCGTTTAAACAACCTCACAATCGTAAATGCTACTAT
TCCTAAGATATCTTACCTTTTTTATTTAGTTTAGCCATGTATTGTATGAGTGTATTAGTCTAAGCAGTGAGAATC
TTTTCTATGCCTCTATTCCAGCAAAAAGTAGAAGTATCAAATAAAAAGGGCAACTTTTAAATATTAAGCCTGAA
GACTTCTAAAAGACAAGAAACATGGCCTAAATAACCAACATAGATTTACATAGTAAGTTTACACTACCTTATT
ACCAAAGCAAACACCTCTTACTTTAAACTACATTATCATGTATATCTATTGTATGCTGGTCTTTACTTTTTGCC
AAAATCAACATATAATGAAGAGATGCCTTTGTTTCATGAGATTCAAACCTTGATGCTATGCTTTAAATAAACTCA
GTACTTTTAGAAACAT

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FIGURE 6234

MVIRVYIASSSGSTAIAKKKQQDVLGFLEANKIGFEEKDIAANEENRKWMRENVPENSRPATGYPLPPQIFNESQY
RGDYDAFFEARENNAVYAFGLGTAPPGSKEAEVQAKQQA

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FIGURE 6235

TTTCCGCACTACCTACAGAGGGGTCCATAGGGGGTTGTTCTAGATTCCCGTCGTAACCTTAAAGGGAACTTTTCAC
AATGTCGGGAGCCCTTGATGTCCTGCAAATGAAGGAGGAGGATGTCCTTAAGTTCCCTTGAGCAGGAACCCACTT
AGGTGGCACC AATCTTGACTTCCAGATGGAACAGTACATCTATAAAAGGAAAAGTGATGGCATCTATATCATAAA
TCTGAAGAGGACCTGGGAGAAGCTTCTGCTGACAGCTCGTGCTATTGTTGCCATTGAAAACCCCTGCTGATGTCAG
TGTTATATCCTCCAGGAATACTGGCCAGAGGGCTGTGCTGAAGTTTGCTGCTGCCACTGGAGCCACTCCAATTGC
TGGCCGCTTCACTCCTGGAACCTTCACTAACCAGATCCAGGCAGCCTTCCGGGAGCCACGGCTTCTTGTTGGTTAG
TGACCCAGGGCTGACCACCAGCCTCTCACGGAGGCATCTTATGTTAACCTACCTACCATTGCTCTGTGTAAACAC
AGATTCTCCTCTGCACTATGTGGACATTGCCATCCCATGCAACAACAAGGGAACCTCACTCAGTGGGTTTGATGTG
GTGGATGCTGGCTCGGGAAGTTCTGCGCATGCGTGGCACCATTTCCCGTGAACACCCATGGGAGGTCATGCCTGA
TCTCTACTTCTACAGAGATCCTGAAGAGATTGAAAAAGAAGAGCAGGCTGCTGCTGAAAAGGCAATGACCAGGGA
GGAACCTCAGGGTGAATGGACTGCTCCAGCTCCTGAGTTCACTGCTACTCAGCCTGAGGTTGCAGACTGGTCTGA
AGGTGTACAGGTGCCCTCTGTGCCTATTACAGCAGTTCCCTACTGAAGACTGGAGCACTCAGCGTGCCACGGAAGA
CTGGTCTGCAGCTCCCACTGCTCAGGCCACTGAATGGGTAGGAGCAACCACTGACTGGTCTTAAGCTGTTCTTGC
ATAGGCTCTTAAGCAGCATGGAAAAATGGTTGATGGAAAATAAACATCAGTTTCT

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FIGURE 6236

MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLTARAIVAIENPADVS
VISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIAAFREPRLLVSDPRADHQPLTEASYVNLPTIALCNT
DSPLHYVDIAIPCNNKGTHSVGLMWWMLAREVLRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAMTRE
ELQGEWTAPAPEFTATQPEVADWSEGVQVPSVPIQQFPTEDWSTQRATEDWSAAPTQAQATEWVGATTDWS

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FIGURE 6237

GATCATGTCTGTAAGCCAGGATTCCCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGAAGGCGTCATCGA
GAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCGTGACATCTATGC
CTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTATAATGTAATCGC
TCAAGCCTGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGCATTAGATCTAAA
AGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGTCATGGCACTAGT
AGACTACATGGGTGCCTCCTGTGTCATGCCTGTATCAGGGGCACCAATGTGCGTGCTGAGGTGCAGAACTGCAGAT
GGAAGCTCCCCACATCATCGTGGGTACCCCTAGCTGTGTGTTTGATATGCTTAACCGGAGATACCTATCTCCCAA
ATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCAGATCTATGACAT
ATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGCTAGCTACAATGCCTTCTGATGTGCTTGAGGTGAT
CAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCCTGGAGGGTATCCGCCAATT
CTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCTGACCATCACCCA
GGCAGTCATCTTCATCAATACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCGAGATTTCACTGT
CTCCGCCATGCATGGAGATATGGACAAAAGGAGCGAGACGTGATCACGAGGGAGTTTCGTTCTGGCTCTAGCAG
AGTTTTGATTACCACTGACCTGCTGGGAAAATATATCCACAGAATCAGTCGAGGTGGACAGTTTGCCCGTAAAG
ATGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCA
TTGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCGGGGGCTGAGGAGCAGCAGGAGAGGGGAAGGAAGGGAGCCAAGGGATAGACATCTTGTGATTTTTTTTCTT
TGAATAAATGTCACTTTTTTGAGGCAAAA

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FIGURE 6238

TCGTCGGCAAAGCCTGAGTCCTGTCCTATCTCTCTCCTCCCCGGACAGCATGAGCTTCACCACTCGGTCCACCTT
CTCCACCAACTACCAGTCACTGGGCTCTGTCCAGGCGCCAGCTACGGCGCCCGGGCCGGTCAGCAGCGCGGCCAG
CGTCTATGCAGGCGCCGGGGGCTCTGGTTCCCGGATCTCCGTGTCCCGCTCCACCAGCTTCCGGGGTGGCATGGG
GCCTGGGGGCTGGCCGCGGGGATGGCTGGGGGTCTGGCAGGAATGGGAGGCATCCAGAACAAGAAGACCATGCA
AAGCCTGAACGACCGCCTGGCCTCTTACCTGGAACAGAGTGAGGAGCCTGGAGACTGAGAACCGTAGGCTGGAGAG
CAAAATCCGGGAGCACTTGGAGAATAAGGGACCCAGGTCAAAGACTGGAGCCATTACTGCAAGACCATCGAGGA
CCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATCGTTCTGCATATTGACAATGCCCGTCTTGC
TGCTGATGACTTTAGAGTCAAGTATGAGACACAGCTGGCGATGCGCCAGTCTGTGGAGAACGACATCCATGGGCT
CCGCAAGGTCATTGATGACACCAATGTCACTTGACTGCAGCTGGAGACAGAGATTGAGGCTCTCAGGGAGGAGCT
GCTCTTCATGAAGAACCACGAAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTTTAGGTTGACCGTGGA
GGTAGATGCCCCCAAATCTCAGGACCTCGCCAAGATCATGGCAGACATCCGGGCCCCAATATGACGACCTGGCTGG
GAAGAACCAGAGAGGAGCTAGACAAATACTGGCCTCAGCAGTTTGAGGAGAACACCACAGTGGTCACCACAGTCCG
CCGAGGTTGGAGCTGCTGAGATGACGCTCACAGAGCTGAGACGTACAGTCCAGTCCTTGGAGATCGACCTGGACT
CCATGAGAAATCTGAAGGCCAGCTTGGAGAACAACCCGAGGGAGGTGGAGGCCCCGCTACTCCCTACAGATGGTGC
AGCTCATCGGGATCCTGCTGCACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGAGACAGTGCCAGGCCCCAGG
AGTAATGAGGCCCTGCTGAACATCAAGGTCAAGCTGGAGGCTGAGATCGCCACCTACCGCCGCTGCTGGAAGAT
GGCGAGGACTTCACTCTTGGTGATGCCTTGGACAGCAGGAATCCATGCAAACCATCCAAAAGACCACCACCCGC
CGGAAAGTGATGGCAAAGTGGTGTCTGAGACCAACAACACCAAAGTTCTGAGGCATTAAGCCAGCAGAAGCAGG
GTACCCTTTGGGGAGCAGGAGGCCAATAAAAAGTACAGAGTT

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FIGURE 6239

CGGAAGCCGACTCAACAGAGCTATGGCGGGTTTGACTGTGAGAGACCCAGCGGTGGATCGTTCTCTACGTTCTGT
GTTTCGTGGGGAACATTTCCTTATGAAGCTACTGAAGAGCAGTTGAAGGACATCTTTTCTGAGGTTGGACCTGTTGT
TAGTTTCAGATTGGTATACGATAGAGAGACAGGAAAGCCAAAGGGTTATGGCTTCTGTGAATACCAAGACCAAGA
GACAGCACTTAGTGCCATGCGGAACCTGAATGGGCGCGAATTCAGTGGGAGAGCACTTCGAGTGGACAATGCTGC
CAGTGAAGAAGAACAAAGAAGAGCTGAAGAGCCTTGCGACTGGTGGCCCTGTCATTGAGTCACCTTATGGAGAGAC
CATCAGTCCTGAGGATGCCCCTGAGTCCATTAGCAAAGCAGTTGCCAGCCTTCCACCAGAGCAGATGTTTGAGCT
GATGAACAAATGAAGCTCTGTGTCCAGAATAGTCCCCAGGAGGCACGGAACATGTTACTTCAGAACCCTCAACT
GGCTTATGCTTTGCTGCAAGCACAGGTAGTGATGAGAATTGTGGATCCGGAATTCGCCCTGAAAATTCTGCATCG
CCAGACAAATATCCCAACGCTGATTGCAGGCAACCCCTCAGCCAGTCCATGGTGCTGGGCCTGGCTCAGGATCCAA
TGTGTCAATGAACCAGCAGAATCCTCAGGCCCCCTCAGGCCAGTCTTTGGGTGGAATGCATGTCAATGGCGCACC
TCCTCTGATGCAAGCTTCTATGCAGGGTGGAGTTCAGCACCAGGGCAAATGCCAGCTGCTGTACAGGACCTGG
CCCTGGTTTCCTTAGCTCCTGGAGGAGGAATGCAGGCTCAGGTTGGAATGCCAGGAAGTGGACCAGTGTCCATGGA
ACGGGGGCAAGTGCCGATGCAAGACCCAGAGCAGCTATGCAGCGGGGATCCTTGCCCTGCCAATGTCCCAACCCC
TCGAGGCTTGTTAGGAGATGCTCCGAATGATCCACGGGGAGGCACCTTACTTTCTGTAAGTGGAGAGGTAGAGCC
TAGAGGTTACTTGGGACCACCTCATCAGGGTCCACCCATGCACCATGTCCCTGGCCATGAGAGCCGAGGACCACC
CCACATGAAGTGAAGGGGAGGGCCATTACCCGAGCCCAGACCTCTAATGGCAGAACCAAGAGGACCCATGCTAGA
TCAGAGGGGTCCACCCTTGATGGCAGAGGTGGAAGGGATCCCCGAGGAATAGATGCACGAGGGATGGAGGCCG
AGCCATGGAGGCAAGAGGGTTAGATGCCAGAGGATTAGAGGCCGTGCAATGGAGGCCGTGCGATGGAAGCTCG
TGCAATGGAGGCCCGAGCGATGGAGGCCGTGCAATGGAAGTCCGAGGGATGGAGGCCAGAGGCATGGATACCAG
AGGCCAGTGCCTGGCCCCAGAGGACCTATACCTAGTGGAATGCAGGGTCCCAGTCCAATTAACATGGGGCGGT
TGTCCTCCAGGGATCCAGACAGGTCCCAGTCATGCAGGGAACAGGAATGCAAGGAGCAAGTATACAGGGTGGAA
CCAGCCTGGCGGCTTTAGTCCCGGGCAGAACCAAGTCACTCCACAGGATCATGAGAAGGCTGCTTTGATTATGCA
GGTTCTACAAGTACTGCAGACCAGATTGCCATGTTGCCTCCTGAGCAAAGGCAGAGTATCCTGATTTTAAAGGA
ACAAATACAGAAATCCACTGGAGCACCTTGATAGGTTTTCAAAAATACCTGGCAAGAAATCTGGAAATCTATAA
TTTTGTTGAAATATTGAAAAAGATGACCTGCATCCTAACCCCTGAATGACTCAAATCAGTGCCAGGTGGAGGAC
TCCCATCACCTTCTCTCAGAACAAAATCACTTCACTTTATTGTCTTAGTTTGTATATTTCTGTGACTTGAAATA
AACTTTGAACACAATTTTAGTACACTGC

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FIGURE 6240

MAGLTVRDPVAVDRSLRSVFGNIPYEATEEQLKDI SEVGPVVSFRLVYDRETGKPKGYGFCEYQDQETALSAMR
NLNGREFSGRALRVDNAASEKNKEELKSLGTGAPVIESPYGETISPEDAPESISKAVASLPPEQMFELMKQMKLC
VQNSPQEARNMLLQNPQLAYALLQAQVVMRIVDPEIALKILHRQTNIPTLIAGNPQPVHGAGPGSGSNVSMNQON
PQAPQAQSLGGMHVNGAPPLMQASMQGGVPAPGQMPAAVTGPGPGSLAPGGGMQAQVGMPSGSPVSMERGQVPMQ
DPRAAMQRGSLPANVPTPRGLLGDAPNDPRGGTLLSVTGEVEPRGYLGPPHQGPPMHVPGHESRGPPPHEL RGG
PLPEPRPLMAEPRGPMLDQRGPPLDGRGGRDPRGIDARGMEARAMEARGLDARGLEARAMEARAMEARAMEARAM
EARAMEVRGMEARGMDTRGPVPGPRGP IPSGMQGPSP INMGAVVPQGSRQVPVMQGTGMQGASIQGGSQPGGFSP
GQNQVTPQDHEKAALIMQVLQLTADQIAMLPPEQRQSILILKEQIQKSTGAP

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FIGURE 6241

AAGGGTTGGCTGCGCGTGCGGGGGGAGTAGAGGCGCCTTGCGCACCAGGAAGTGAAGTGTTCCTCCCGCCGAGCAA
ACCAGGCCATCCGCTGGCCTTTTAGTTTGCCGCTCAGGTTTGTAAGAGGATTTATTGGTTACGAAGGAAGGTGG
ATTTCAAGTGTGTTCTTTGGATGGCAGGCTTAAGAGAAGAGTCCCAGTGCACAGCCTCAGATACTTCATCTCCAT
GGTGGGTCTCTTCTCCAAACCAGGACTGCTTCCCTGGTATGCCAGAAATCCACCAGGATGGTCACAGCTCTTTCT
GGGCACAGTATGTAAGGGAGATTTCACCCGTGTGATAGCCACGAAATGTCAGAAAGGACAAAAAGTCAGAAGAA
ACCAAGCCATCTTGGACCACTAGATGGTTCTTGGCAGGAAAGGCTGGCTGATGTTGTGACACCACTCTGGAGGTT
GAGCTATGAAGAACAGCTCAAGGTGAAATTTGCAGCTCAGAAGAAAATTTTACAAAGACTAGAGTCTTACATCCA
AATGCTCAATGGAGTCAGTGTGACAACGGCTGTACCCAAATCTGAGAGGCTCTCTTGTCTTCTCCATCCTATTAT
ACCTCTCCTGTCATCAATGGTTACCGAAATAAGTCCACCTTCTCTGTGAACCGAGGTCCAGATGGCAATCCAAA
GACTGTGGGGTTCTACCTGGGAACCTTGAGAGATGGGAACGTTGTCTGTGTGCAGTCTAATCATCTGAAAAACAT
CCCTGAGAAACACAGTCAAGTGGCGCAGTACTATGAAGTATTCCTTCGACAGTCTCCATTGGAGCCCTGCGTTGT
ATTTCAATGAAGGTGGATACTGGCGTGAGCTCACAGTCCGCACCAATAGCCAAGGGCACACAATGGCTATCATCAC
TTTCCATCCCCAGAAATTAAGTCAGGAGGAGCTCCATGTTGAGAAGGAGATTGTAAAGGAATTTTTCATCAGAGG
TCTTGGAGCAGCCTGTGGCTTGACCTCACTTTACTTCCAGGAAAGTACCATGACCCGTTGCAGCCATCAGCAGTC
TCCCTATCAGCTTCTGTTTGGGGAACCCCTACATCTTTGAAGAACTTCTGAGCTTGAAGATCCGCATCTCTCCAGA
TGCTTTTTTCCAGATTAAACACAGCTGGTGCAGAGATGCTGTATCGGACTGTGGGGGAGCTGACTGGAGTGAACCTC
TGACACCATCCTTCTTGACATCTGCTGTGGAACCTGGTGTGATTGGCTCTCTCTGGCTCAGCATACATCTCGGGT
CCTTGGGATTGAATTGTTGGAGCAGGCAAGTGGAGGATGCAAGATGAGTGCAGCCTTCAATGGCATCACCAACTC
TGAATTTCAATGGTCAAGCAGAGAAGATTTTGCCAGGGCTGCTAAAGTCAAAGGAAGATGGACAGTCAATTGT
TGCTGTGGTGAACCCAGCCGTGCCGGACTGCATTACAAGGTGATTCAAGCCATTGCAAACTTCAGGGCCATCCA
CACGCTAGTTTTTGTTCCTGCAAGCTCCATGGTGAATCCACTAGGAATGTCATTGAGCTGTGCTGTCTCCAGA
CCCTGCTAAGAAGCTCTTAGGCGAGCCCTTTGTCTGCAGCAAGCTGTACCTGTGGATTTGTTCCCTCACACCCC
ACATTGTGAGCTGGTGCTCCTCTTTACTCGATAAGCAGCCTCCTAGAAGACAGCAGGCTATTTGTTAAGGCTGAA
GTTTCAGAAACTTTTCAGGTTTGGCATATTGCTACATTGCAGACCTGGGAGCATTACAGTGGAAACCAATCTTTG
GTTTGTGAATAGGAAGAATCTATTAGGCCTCTGGTCTGAGGCAGATTTTTTTTTTTGAGATAGAGTCTCACTCTTG
CCCAGGCTGGAGTGTCGTGGCGTGATCTCAGCTCACTGCAACCTCCGCCTCCCGGTTCAAGTGATTCTCGTGCC
TCAGCTTCCCCAGTAGCTAGGATTAAAGGTGCGTGCCACCATGCCCGGCTAATTTTTGTATTTTGGTAGAGACA
GGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAAGTGATCCACCCGCTCGGCCTCTCAAAGT
GCTGGGATTATAGGCGTGAGCCACCACACCCCGCGCGGCTGACTTAACCTTAGATTTAGATTCCCTTTCAATC
ATGCCCGTTTGCTTGGGTTTGACCACTCCCACTCCTGGATCTGGACTGTTTCTTCTGTTGCTGTGAGCCTTGG
TTCTAGTTTATAGTCTTGTCTCCTCCGTTTCTGCTTATGGTGTGGACAAATGACCTTTTTTAAAGCAGCTGGTAAT
AATTTTACATTGACTGGAGCCTGTGCATTTGCTCAGAGATGCTACAATTTTTTAGATATTTCTAAGACTTCTGGAT
TCTTGAGGTAGTTAAGGATTAAAACCAGAAACAGTCGAGGTTTTTTAAAAGCAGGGTAAGCCATGAAGTGAATAC
AGGGTGACTGAGTGATCATCAGATGAGATTAAATCTTTTGGGTTTTCTTGGTTTTAAGGCATCTCGAATGCCCTT
TGAAAATGTAGTTTTTCCCTGGTGGTGGGCACCTGTAATCCCAGCTACTCGGGAGGCTGAGGCAGGATAATTGCTT
GAACCTGGGAGGTGGAGGTTGCAGTGAGCTGAAATTGTGCCACTGCACTCCAGCCTGGGTGACAGAGTGAGACAC
CATCTC

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FIGURE 6242

GCGGAGTTTCGTCTCTGCAAGCTTGGTCGCCCTGGGATCGATTCCCTCCTCCTCCTCCTCCGCGGCGGGTTTGGGTG
CAGTGGACCCACAGTTGCAGCATTTTCATCGAGGTAGAGACTCAAAAAGCAGCGCTTCCAGCAGCTGGTGCACCAGA
TGACTGAACTTTGTTGGGAGAAGTGCATGGACAAGCCTGGGCCAAAAGTTGGACAGTCGGGCTGAGGCCTGTTTTG
TGAAGTGCCTTGGAGCGCTTCATTGATACAAGCCAGTTCATCTTGAATCGACTGGAACAGACCCAGAAATCCAAGC
CAGTTTTCTCAGAAAGCCTTTCTGACTGATCTCAGCATTAACCTCTTTGGAAAAGGAAGGTAGTTCAAGAAATGAA
GAGCTGTTGATGGGATGATTGAAGAAACAGCTATGAGAGGATTGGCTCCCATCTTTGTTACTCTTGGGACATCC
TGTCATCTGAGAATGAACAAAGACCAATTTTTGTGTGTGAAGCTTAAGGGTCATATGTTTGCTTGTATTTTTTA
ATGCTAATCTTGTGAAAATAATTGACAGGCGAAAGAAAACCTCTATTTAGATGCATATTACTGTACATGGGACTAT
GCTTTTCTCAAAGCCCCATTAAGTCTTCTATAATTTTGATAGTGGGACCACATACGTAAAAATCTCTCATTG
TGTGGAGTCATTTCTGATTTTCAGGGGAGATCCTTGTGTTTATCAGAAAGGGCAGAAGTAGGGGAAGAATAATTG
GTATCCTTATCTAGTGTGTTGATTGTCAATGCTGGAGAAAAATATCTGTAAGAGTGTGTTATACAGTACACTTCAGT
TATCTTGATCTCCCTTTCTATATGATGATTGCTTAAATATCCATATTAAGTAAGTCTCAAGGTAGGGTAGGCA
GCCTGAGAGTCTAGAGGCCTTTAGTTATAAAGGAATCTAGCCAGTGAACATAATTCTTATTACTAGACTGCCACA
AGGAAGAAATTAAGTACCTGTATATCAGGGTACAAAAATTCAGTGATGTGCCTAAATAAGTTATAAAGATTT
AGGCCAATCAGAAGCTAACAGCAGTTTCAGGTAGAGGTGCATGCCTAATGTTAGTTAGTGTAGATTCCATTTACT
GCATTCTTCTGATCACTGAAATAAAAGCTATATAAGATTCAATA

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FIGURE 6243

MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTCLWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQ
FILNRLEQTQKSKPVFSESLSD

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FIGURE 6244

GCGGTTTCTTTCTTTCCGCGCCGATAGCGCTCACGCAAGCATGGTTAACGTCCCTAAAACCCGCCGGACTTTCTG
TAAGAAGTGTGGCAAGCACCAACCCCATAAAGTGACACAGTACAAGAAGGGCAAGGATTCTCTGTACGCCCAGGG
AAAGCGGCGTTATGACAGGAAGCAGAGTGGCTATGGTGGGCAAACTAAGCCGATTTTCCGGAAAAAGGCTAAAAC
TACAAAGAAGATTGTGCTAAGGCTTGAGTGCGTTGAGCCCAACTGCAGATCTAAGAGAATGCTGGCTATTAAAAG
ATGCAAGCATTGAACTGGGAGGAGATAAGAAGAGAAAGGGCCAAGTGATCCAGTTCTTAAGTGTCATCTTTTAT
TATGAAGACAATAAAATCTTGAGTTTATGTTCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6245

MVNVPKTRRTFCCKCGKHQPHKVTQYKKGKDSLYAQGKRRYDRKQSGYGGQTKPIFRKKAKTTKKIVLRLECVEP
NCRSKRMLAIKRCKHFELGGDKKRKGQVIQF

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FIGURE 6246

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTTCAGGTCACCATCAGAAAAGCTAAGTTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAATCTTGGATGATTTACAAAAAGTTTCATCT
TCATTGCAGATACCTGCCTTTCTTTCTAGGTTGTATCTCCCACTTCACCCCTTCTAGACCATCCCAGAAGATCTAT
AAGATTTTCATCTGGGAAATCACTAGGAGTTCTTGGAAAGGGAAAGAAGGAAGATTGTTGGTTGGAATAAAAAACAGG
GTTGAATGAGTTCCAGAAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAAGAAGAGAAGTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAAAATGAGAGGGGCTCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTTGAACCAGCTCTCCAGGAAGATGGGGTGGTCTGCTCTGCAGAGAACCCCCCTTCAGGATCCGTGAGGA
AGACCAGAAAGAACAAGCAGAAGACTCCTGGAACCGAGATGGTGGCAGTACCAGCGAAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCCGGCAGACCCCACTGTTGAAAGTGAGGAGGCGTTTAAGAATAGAATGGAGGTTAAAGTGA
AGATTCCTGAAGAATTAACCATGGCTTGTGAGGACTGGGACTTAGTTACCAGGCAGAAGCAGCTGTTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGTGGCAGGAATAAAGAATATTTCAATGTGATGTTGGGCACTCAGCTGC
TCTACAAATTTGAGAGGCCCCAGTATGCTGAAATCCTCTTGGCTCACCCCTGATGCTCCAATGTCCCAGGTTTATG
GAGCACCACTACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCCTTGATGAGAAAAGCC
TTGCATTATGTTGGGCTATTTGCATGATTTCTTAAATATCTGGCAAAGAATTCTGCATCTCTCTTTACTGCCA
GTGATTACAAAGTGGCTTCTGCTGAGTACCACCGCAAAGCCCTGTGAGCGTCTACAGACAGCTCACCATTTTGT
CCTGTATCTGTAAACACTTTTGTCTTAGTCTTTTCTTGTAATAATTGATGTTCTTTAAATCGTTAATGTATA
ACAGGGCTTATGTTTCAGTTTGTTCGTTCTGTTTAAACAGAAAATAAAGGAGTGTAAGCTCCTTTTCTCA
TTTCAAAGTTGCTACCAGTGTATGCAGTAATTAGAACAAGAAGAAACATTAGTAGAACATTTTATTGCCTAGT
TGACAACATTGCTTGAATGCTGGTGGTTCCTATCCCTTTGACACTACACAATTTTCTAATATGTGTTAATGCTAT
GTGACAAAACGCCCTGATTCCCTAGTGCCAAAGGTTCAACTTAATGTATATACCTGAAAACCCATGCATTTGTGCT
CTTTTTTTTTTATGGTGCTTGAAGTAAACAGCCCATCCTCTGCAAGTCCATCTATGTTGTTCTTAGGCATTCT
ATCTTTGCTCAAATTGTTGAAGGATGGTGATTGTTTCATGGTTTTGTATTTGAGTCTAATGCACGTTCTAACA
TGATAGAGGCAATGCATTATTGTGTAGCCACGGTTTTCTGGAAGTTGATATTTAGGAATTGATTTTCAGATC
TTAAATAAAATTTGTTTCTAAATTC

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FIGURE 6247

MSSRKQGSQPRGQQSAEEENFKKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKKRARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDLVTRQKQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHDPAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAEYHRKAL

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FIGURE 6248

TTGGTCTAAGACATGGGCTGACAACTTTTTCCATAAAGGGCCAGAAAGTAAATATTTTCAGGCTTTGTGGGATAT
CTATTTATGATTTATTTTACTCCTAGTATTATTTTCATCTTTTATACAGGTTATTAAGGTTAGTATTGCTGCATAA
CAAATTACTCCAAAATTTAATCATTATATTCAAGAAGAGTTCAGCTGCTAGGTTCTTATTTTGGGACTCTCATG
ATGCTGAGGTCAAGATGCCAGCTGGAGGCCAGGCGCCGAGCTCACGCCTGTAATCCCAGCGTTTTTGGGAGGCCA
GGGGCCTCCCAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCAATGCGAAGAATGGAAAGGTCACATATCAT
ATGTGGAGCGGGACATAACAACCTTCGGAAATTAAATCTCTTCCCCAGGTCAGTGTGCGGGCCTTCCACGCTGCCA
GCGGAACACTGGAATGGCGGAAGGGGAACGGGTACGGCAGGGGGAAAGGCTGGGGGTGGGGTCGGGTGAGTCGA
GGGAAGCTGGCCCGAGTGTGGACAGAGATGGCGGTCTGCGCGTCTGTTGTTCCAGCGCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCCAGAATCCCCGAGGTCCGTGAAAGACAGGAAAAGGAGGGGAAATCTCGACATGGAAA
AACTCTACAGTGAAAATGAAGGAATGGCTTCAAACCAAGGAAAGATGGAAAATGAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACCTGTACTCTGGAAGACAAGAAGTTAGAAAACGAGGGAAAGACAGAAAACAAGGGCAAAA
CAGGAGATGAGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAACTAATAAGGGGCTGGCTCATTACCTCAAGGAGTATAAAGAGGCCATACATGATATGAATTTAGCAATG
AGGACATGATAAGAGAATTTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTTGGGGG
CGTTTTTGTGGAATGCAAAGAAATTTACAGGACCCCTTCTACCTTAGAGGTCCAAGGGAATTCAGGGGTGGCTGCA
GGGCCCCACGAAGGGACATTGAAGACATTCCTTATGTGTAGTGTCCCTGGCAGGCATTTACCAGGCCATGTGCTT
TAACGTTACGGTAATACTTTACTTTAGGCATCCCTCCTGTTGCTAGCAGCCTTTTGACCTATCTGCAATGCAGTG
TTCTCAGTAGGAAATGTTTCATCTGTTACATGGAAAAATGTTGATGGTGCATTGTAAAATTAaaaaacacaactt
GCAGAACCAAAAAAAA

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FIGURE 6249

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQVSVRAFHAASGTLE
WRKGNGYGRGKGWGWGRVESREAGPSVDRDGGGLRVCCSQRSAPKEKEEQPVQNPRRSVKDRKRRGNLDMKLYSE
NEGMASNQGMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMLKDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPEIEGKPESEGEPPGSETRAAGKRPAEDDVPRKAKRKTNKGLAHLKEYKEAIHDMNFSNEDMIR
EFDNMAKVQDEKRKSKQKLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

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FIGURE 6250

GAAGTCCTGGTAATCTGGTCCTTGTTCCCGTCTGGATACCAGCTTCCTTCAGCAGCGCAGGCGGTGGTCCCTGAG
GCCCCGTGGAAGGAGTCAAACCTTGCGGGAATTTTGCAGTTTATCTGCAGGGCTGTTGTTTCCAGCAAGACCCAAAG
CTAGAAAAGGAGGAGGAAGAACTGACCCGATCAGTGCCAGAAGTCATTGTATTCAAAGAAGAATAAGCAAGAAA
GAAAAGAAGGAAGGAAGAGAGGTAGACAGATACAAGATGAAATCCTGTCAAAAATGGAAGGAAAACCAGAAAAT
GAGAGTGAACCAAAGCATGAGGAAGAGCCAAAGCCTGAGGAAAAGCCAGAAGAGGAGGAGAAGCTAGAGGAGGAG
GCCAAAGCAAAGGAACTTTTAGAGAAAGGCTGATTCAATCTCTCCAGGAGTTTAAAGAAGATATACACAACAGG
CATTTAAGCAATGAAGATATGTTTAGAGAAGTGGATGAAATAGATGAGATAAGGAGAGTCAGAAACAACTTATA
GTGATGCGTTGGAAGGTTAATCGAAACCATCCTTACCCCTATTTAATGTAGTTTACCTTGATTTTTATCTGATAT
TAACAATACCATATAGCTTGCTTTTTATTAGCATTTCTTGATATTCCTTTGTCCATATTTCTACTTATAACCTGT
TGCTATTAATGGTTTTAGATGTATCTCTTGTTATCTGCATCTCATTGTTTATTGTATTTTGAACCAATCTACAAG
TCTCTGTCTTTTAATAAAAAGAACTTTACACATTTGTAAAAAAGAGGTTCTTGGAAGATATAAAATGGAAAAAGG
CTAAGTAATATGTGAATATCATATTTTGAAGGTAAAAAGTACATTTGTATATTACATATATGGACATAACTTG
TGAAGGATGAAAGAAAGTACAGCCTCTCGGTGGTGGGATTATGAATGATTTTTCTCCTTTTGCTTGTTTGTATTT
TCTATATTCCTAAAATTAACACACATTATTATTGCTAGAATAATAAAAGTTTTAT

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FIGURE 6251

CAGGATGACAGCTGGAGAAATGGAGTCAGTTTTATCCAAGTATGAAGATCAGATTACTATTTTCACTGACTACCTA
GAAGAATATCCAGATACAGATGAGCTGGTATGGATCTTAGGGAAGCAGCATCTCCTTAAACAGAAAAATCTAAG
CTGTTGTCTGATATAAGTGCTCGTCTATGGTTTACATACAGAAGGAAATTTTACCAATTGGTGGAACGGGCCCT
TCATCAGATGCTGGTTGGGGATGTATGCTACGCTGTGGACAGATGATGCTGGCTCAAGCCCTTATCTGTAGACAC
TTGGGAAGGGACTGGAGCTGGGAGAAACAAAAAGAACAACCCAAAGAATACCAACGCATCCTACAGTGCTTCTTA
GATAGAAAAGATTGTTGCTACTCTATCCATCAAATGGCACAAATGGGTGTAGGAGAAGGGAAATCAATTGGAGAA
TGGTTTGGACCAAATACAGTTGCACAGGTGTTAAAAAACTTGCTTTATTTGACGAATGGAATTCCTTGGCTGTT
TATGTTTCAATGGATAACACAGTGGTCATTGAAGATATCAAAAAATGTGCCGTGTCCTTCCCTTGAGTGCTGAC
ACAGCTGGTGACAGGCCTCCCGATTCTTTAACTGCTTCAAACCAGAGTAAGGGCACCTCTGCCTACTGCACAGCC
TGGAACCCCTGCTGCTCATTGTGCCCCCTTCGCCTGGGCATAAACCAAATCAATCCTGTCTATGTTGATGCATT
AAAGAGTGTTTAAGATGCCACAGTCTTTAGGGGCATTAGGAGGAAAACCAAATAACGCGTATTATTTCATAGGA
TTCTTAGGTGACGAGCTCATCTTCTTGGACCCTCATACAACCCAGACCTTTGTTGACACTGAAGAGAATGGAACG
GTTAATGACCAGACTTTCATTGCCTGCAGTCCCCACAGCGAATGAACATCCTAAACCTGGATCCTTCAGTTGCA
TTGGGATTTTCTGCAAAGAAGAAAAAGACTTTGATAACTGGTGTAGCCTTGTTTCAGAAGGAAATTCTAAAGGAG
AATTTAAGGATGTTTGAATTAGTTCAGAAACATCCATCACACTGGCCTCCCTTTGTACCTCCAGCCAAGCCAGAA
GTGACAACCACTGGGGCAGAATTCATTGACTCTACTGAGCAACTGGAGGAGTTTGATCTGGAGGAAGATTTTGAG
ATTCTGAGTGCTAGAAATCCTGGGAACCTCAACTGAAGGTCTG

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FIGURE 6252

MESVLSKYEDQITIFTDYLEEYPTDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGW
GCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEKSIGEWFGPNT
VAQVLKKLALFDEWNSLAVYVSMNTVVIEDIKKMCRLPLSADTAGDRPPDSLTAQNQSKGTSAYCTAWKPLLL
IVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTF
HCLQSPQRMNINLDPVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEVTTTGA
EFIDSTEQLEEFDLEEDFEILSV

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FIGURE 6253

CTTTCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCAAACCAAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACCTGGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCCTGCTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGACAGGGATGATCGTTCTTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACA
GATACGGACTGGAGGGCTTGTCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAA
GTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGG
CGGGGACCGCTATGAAGACTGATATGACAGACGGGATGA

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FIGURE 6254

MAASAKKKKKGKTISLTDFLAEDGGTGGGSTYVSKPVSWADETDDLEGDVSTTWHSNDDDVYRAPPIDRSILPT
APRAAREPNIDRSRLPKSPPYTAFLGNLPYDVTEESIKEFFRGLNISAVRLPREPSNPERLKGFYAEFEDLDSL
LSALSLNEESLSNRRIRVDVADQALDKDRDDPPFGRDRNRDSDKTDTDWRARPATDTFDDYPPRRGDDSF GDKL

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FIGURE 6255

CTTCCCTCTCCCAACATGGCGGCCTCAGCAAAAAAGAAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTT
TCTGGCTGAGGATGGGGGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGAT
GACCTGGAAGGAGATGTTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGT
TCCATCCTTCCCACTGCTCCACGGGCTGCTCGGGAACCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCC
TACACTGCTTTTCTAGGAAACCTACCCCTATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTCGAGGATTAAAT
ATCAGTGCAGTGCGTTTACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTTGGTTATGCTGAATTTGAG
GACCTGGATTCCCTGCTCAGTGCCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTT
GCTGATCAAGCACAGGATAAAGAGTATCGGGATCGTTATGATTAGACCGGTATCGGGATGGGTATCGGGATGGC
CCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGCTATGATGACCAAGGCAGCAGAGACTATGATAGAGGC
TATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGCAGCGGGTATCGCAGGGATGATGACTACAGAGGAGGC
GGGGACCGCTATGAAGACTGATATGACAGACGGGATGATCGGTGCTGGAGCTCCAGAGATGATTACTCTCGGGAT
GATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCCAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAA
GATGATTCTCTGCTAGTACCTCCCAGTCCACTCGAGCTGCTTCTATCTTTGGAGGGGCAAAGCCTGTTG

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FIGURE 6256

ATGGCGGCCTCAGCAAAAAAGAAGAATAAGAAGGGGAAGACTATCTCCCTAACAGACTTTCTGGCTGAGGATGGG
GGTACTGGTGGAGGAAGCACCTATGTTTCCAAACCAGTCAGCTGGGCTGATGAAACGATGACCTGGAAGGAGATG
TTTCGACAACTTGGCACAGTAACAATGACGATGTGTATAGGGTGCCTCCAATTGACCGTTCCATCCTTCCCCTG
CTCCACGGGCTGCTCGGGAACCCAATATCGACCGGAGCCGTCTTCCCAAATCGCCACCCTACACTGCTTTTCTAG
GAAACCTACCCATGATGTTACAGAAGAGTCAATTAAGGAATTCTTTTCGAGGATTAAATATCAGTGCAGTGCCTT
TACCACGTGAACCCAGCAATCCAGAGAGGTTGAAAGGTTTGGTTATGCTGAATTTGAGGACCTGGATTCCCTGC
TCAGTGGCCTGAGTCTCAATGAAGAGTCTCTAGGTAACAGGAGAATTCGAGTGGATGTTGCTGATCAAGCACAGG
ATAAAGACAGGGATGATCGTTCTTTGGCCGTGATAGAAATCGGGATTCTGACAAAACAGATACGGACTGGAGGG
CTTGCTCCTGCTACAGACAGCTTTGATGACTAGAAGAGGTGATGATAGCTTTGGAGACAAGTATCGGGATCGTTAT
GATTACAGACCGGTATCGGGATGGGTATCGGGATGGCCACGCCGGGATATGGATGGATATGGTGGCCGGGATCGC
TATGATGACCAAGGCAGCAGAGACTATGATAGAGGCTATGATTCCCGGATAGGCAGTGGCAGAAGAGCATTTGGC
AGCGGGTATCGCAGGGATGATGACTACAGAGGAGGCGGGGACCGCTATGAAGACTGATATGACAGACGGGATGAT
CGGTCTGGAGCTCCAGAGATGATTACTCTCGGGATGATTATAGGTGTGATGATAGACGTCCCCCCCCAAAGACCC
AAACTGAATCTAAAGCCTTGGAGTACTCTTAAGCAAGATGATTCTCTGCTAGTACCTCCAGTCCACTCGAGCT
GCTTCTATCTTTGGAGGGGCAAAGCCTGTTGACACAGCTGCTAGAGAAAGAGAAGTAGAAGAACGGCTACAGAAG
GAACAAGAGAAGTTGCAGCGTCAGCTGAGTGAGCCAAACTAGAACGACGGCCTCGGGAGAGACACCCAAGCTGG
CGAAGTGAAGAACTCAGGAACGGGAACGGTCAAGGACAGGAAGTGAGTCATCGCAGACTGGGACCTCCACCACA
TCTGGCAGAAATGCACGAAGGAGAGAGAGTAAGAAGTCTCTAGAAAATGAAACACTCAATAAGGAGGAAGATTGC
CACTCTCCAACCTTCTAAACCTCCCAAACCTGATCAGCCCCCTAAAGGTAATGCCAGCCCCCTCCACCAAAGGAGAAT
GCTTGGGTGAAGCGAAGTTCTAACCCTCCTGCTCGATCTCAGAGCTCAGACGCAGAGCAGCAATCCCCTACAAGT
GGTGGGGGAAAAGTAGCTCCAGCTCAACCATCTGAGGAAGGACCAGCAAGGCAAGATGAAAATAAAGTAGATGGG
ATGAATGTCCCAAAGGCCAAACTGGGAACCTAGCCGTGGTCCAGGAGACGGAGGGAACAAAGACCACTGGAAG
GAGTCAGATAGGAAAGATGGCAAAAAGGATCAAGACTCCAGATCTGCACCTGAGCCAAAGAAACCTGAGGAAAAT
CCAGCTTCCAAGTTCAGTTCTGCAAGCAACTATGCTGCTCTCTTGTATGGTGAAGATGAAAATGAGGGAGAAGA
TTATGCCGAATAG

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FIGURE 6257

AAAGTTGCTAGCTGGGGGCAGAGACGGCCACGCGGTTGCAGGAGTAAGAGATCCCTCTGTGGCGAATTGGCCAAC
GGCTCCTTTCAACCCCTGCCTCGTTGGTGGCCACTGGAGAAGCGCGGGGGGCTCCCCCAGACAGCCGTGGGGACAA
GTTAGAGCCAGCACTTTACCCCGGGCCTTGCGTGTAGCTTCCCCTCCCCTACTCTCGGTGCCCTGGTGTCTGGAG
GGGGGTTGTGGGGGTGTGCCCCGCTTACATGGTCCACCACCCGGGCAACCCTCTGGGCTTGTGTTCCATCTCACT
CTTGCTTCTCTGTACTGTGGTCAAGGGGAACCACTGCATCAATGTCCCCGGTATAGCTACCAGAGTCTCCTGGACTGG
CTCTATGGGGGCGTGGACCCCACTTTTGCAGGCAATGGGGGGCCCCGACTGTGCTGCCTTCCCTCTCTGGCAGCAG
CGGCTGCTGGAAAGTGTGGTGGTCTGACCCTGGCTCTGTTGGAGATCCTGGTGGCCCTGCGGCACATCCTGAGG
CAGACGAAGGAGGACGGTAGGGGTAGCCCTGGCAGCCAGCCAGAGCAGGTGACCCAGCGGCCAGAGGAAGGCAAG
GAGAGCCTGAGCAAGAATCTGCTCTTAGTAGCCCTGTGCCTGACCTTCGGGGTGGAGGTGGGCTTTAAGTTCGCC
ACCAAGACCGTCATCTACCTGCTCAACCCCTGTCACTGGTACCATGATGCATCTCCCCCTTTGAATTGGAGATT
TACTACATTACAGCATGTTATGCTCTACGTGGTACCCATCTACCTGCTTTGGAAAGGAGGTGCTTACACTCCAGAG
CCCCCTCAGCAGTTTCCGGTGGGCTCTTCTCTCAACTGGCCTCATGTTCTTTTATCACTTCAGCGTCTTGCAGATC
CTCGGCCTGGTCACCGAAGTGAATTTGAACAACATGCTGTGTCCGGCCATCTCAGACCCATTCTACGGCCCCCTGG
TATCGCATCTGGGCCTCGGGACACCAGACTCTCATGACCATGACCCACGGGAAGCTGGTCATCTGTTCTCATAAC
ATGGCTGGGCCCCCTGTGTAAATATCTGCTGGATTGCTCCGGCTTCCAGCCAAGAAAAATAGACTGAAGGTGCTTA
TTTTTTTTTTTTTCCCTCCCTGAGGAAGCAAGTCGTGACTTGACTTGGAGAACACCCAGTTCTTGATAAAATCATG
GGAGAGGGCAGTAGGATGTTTGGTGTATTTCTTTTCTCCTTTCTGTCCCTTTCTTCTACCACTCTTCCCTTTCC
CAGCTCTTCCCCCTACGATGTCTCCTTGAGCCTGGGGTGTAGTGTGGGCGCTGGATTTTCTCCTTCCCTTTGG
CTCTCTCCTCAAACCTCATCGCATTCTAGTAAGCTGCTTGCAGGGTCGCCGGGCTAACCAGGGTGATCGGCGAAC
TTTACCGTACAGTACCTCAGTCTAGCTGTGATCACCCTTTTGTGTAGCCTCTGTTGAGGTTTTTATATTTG
TGATCATTGGTAATTCAGTGTCTATGAAGTGGGCACAGCTCCCCACAGAGAGCAAGTTGTGACGAGGTCTCTGT
GCACTGGTATTGGGGCAGGGCAGTGCCCTGGGGGTAAGCTAGGTGGCTCAGGGAGTGGCAGAAGGGCCATTTTTC
CCTCTGCCAAAAAGACTTCCCTGGATTTGTAGATGTTGACCCAGAGTCCTCTGTCCCCTCCTGAAGAGGATTTTC
TTACTGGTTTTCTACTGAAGGGGAGGTAGGGGAGGAGGAAAAAAGGACCATGTGTGATGCTGTTAGACAAGACACT
GACGCTGATTATGGAGGGTCTCCTGCAGGCCCTTGTGGGCTCCTTGGCAAGGCCCCAGGCTGGGAAGGAGCTCCC
CCCACTGCCCATCCTGCCCGCTTTGTGGCGGGTAGAGTCAGTGACAGGGAGGCAGCCCTCCTTTTGTGTATATAG
AGTGAGCTGATTTGGGCTCAGGAAAACCTAGTCGCTTGTGCTCTCGTCTGTGACATTTTGTACACTGGTTTGC
TACTCATGGCAAGAAACAGACAAAGCCCCATGAAAAATAAAACAAAACAAAAGTCATTTCAAACAAAGCTGTTGT
TTTGAAAACCTCTTGCTTTCTTTTGGTGTCCATTTTGTGTTCTATTTTAAAGAATCTTTTCAATTTATATTGGTGTTA
TTGTAGTGAAGAGAATGTGATAGGCTGATCTGTAATGGTTTCTGTGAGGAGCTTAGCAAATGCCTCTGCCCCCTCT
TCCCCTACCCCTGTCTTCTCAGTTCCCAGCTGGGATTGCTATGCACTGGGCAGACCCGTCAGTGTCTCCCCTG
AACCCCCACACAGTGGCTTCCCTTAGAACCAGTCTTTGTACTCTCCCTAAACAGCAGCAGGCTTAGGATTTTTGT
CAGGCTGGTTCTTGCGTGTCTGTGCCCCCACCAGTTTGTCTACCTCTTGGGGCATTTTGTAAATGTGTTTCTCT
GTCTTGTA AACCTTTTGATTGTACCGAAATGGTATCTGCAGTCGCCTTTGGAAATAAATGGTCATTAATTTGTG
TACTTAGCATTCTGAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6258

MSRYSYQSLLDWLYGGVDPFSFAGNGGPDCAAFLSWQORLLESVVVLTLLALLEILVALRHILRQTKEDGRGSPGSQ
PEQVTQRPEEGKESLSKNLLLVALCLTFGVEVGFKFATKTVIYLLNPCHLVTMMHLPFELEIYYIQHVMLYVVP
YLLWKGGAYTPEPLSSFRWALLSTGLMFFYHFSVLQILGLVTEVNLNNMLCPAISDPFYGPWYRIWASGHQTLMT
MTHGKLVILFSYMAGPLCKYLLDLLRLPAKKID

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FIGURE 6259

ATGCTGTATGAATTCCAAACTGTTGCTTCACACCCAATGTCAGGATACTCAACCATGATTGGAATCAATAAACTA
CAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGG
CTGAGAGGCGGCGGGAGAGATGCCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAAC
ACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAGCCAAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCT
TCCTGTCCGGGAACGGCCCGGCGTCTGGCTGTCCAGCTAGTCCTGGCGCCTCTCTCTGGGGCTTCCACCGCCCC
ACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATCCGTCCGAGCACCTGCCCTAGTCCTGCC
TGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGCGAAGGCACCGGCAAGGGGCTGGGGGAA
GAGCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCCCAAACACACCTCTCCTCCTCACACCTG
GCCTACGTCCAACCTCCACGGCTCTACCCAGAAGGCTGCACGACTTCTTGCCACGTGCGCCTTCAAAACGGTA
AGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCCATGAACTCAAG
TACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCCAAG
CCAAGGCAGAGTCCGACGGGTCTTCTTCTGGGTGCCCCGGCTTCCCGGACTCCAGCAGGCCTGGGAAGGCCC
CGGGCCCCCTTAGCCGATGCCAGAGAGTCTCCATTTCTCAAGCTTGCCACCGAACTCATCGGTCCGACGCAAG
GAGGAACGCCCCGGCGCCGGCCAGCAGCGGCGGGCACCGGCGCCAATGGCCACGGAACCTCAGCACTGGCAGTCGG
CCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGAGCCGTACCC
CGGTGCTCCCACGGGAAGGGGCACCAGGCAAACCTGCCAAGGCCCCGAGCCCAGGCTCCCTGGCGGAGGCCTCC
GCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGCTTCTGTCCGGGAACGGCCCGGCGTCC
TGGCTGTCCAGCTAG

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FIGURE 6260

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGAGQORRAPAPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLAPEPWLPVRERPGVLAVQLVLAPLSGASTARPRGGACFS
RTSRDLGSVRAPALVLPGPPGQSQATPPQASTAKAPARGWGKSPRQPTSRRKGASGHPKHTSPPHTWPTSNPRL
YPEGCTTSCPRAPSKR

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FIGURE 6261

ATGCCCCGCGGCCAACTTTCTTCCTTGGACCCACAAGGAGGAACGACCCGGGTGCCGGCAAGAAGCCGCCGGGAA
GCCCCGCGCCATTGGCACACGGAATCTCGGCAATTGCCAATTGCGCCTACTTACAAACCGCAAGGCTTGCCATTTT
GGCCCAACGGAACCTTCCCGGCCCAAGAAGCCAGCTTGGCCCTTAACCCCGTTTGCTTCCACGGGAAGGGGCAA
CCAAGCAAAATGCCCAAGGCCCCGAGCCCAGGGGTCCCTGCCGAAGGCCTCCGCTGGTCCCGCCCAGATCATGG
GCGCCACCAGGCTCCCGAGCCGTGGCTTCCTGTCCGGGAACGGCCCCGGCGTCTGGCTGTCCAGCTAGTCCTGGC
GCCTCTCTCTGGGGCTTCCACGCCCCGACCCCGCGGCGGAGCCTGCTTCTCTCGGACCTCCAGAGACCTCGGATG
CGTCCGAGCACCTGCCCTAGTCCTGCCTGGTCCCCCAGGACAGTCCCAAGCCACTCCTCCCCAGGCGAGCACAGC
GAAGGCACCGGCAAGGGGCTGGGGGAAGAGCCCACGCCAGCCTACGTACGCAGGAAGGGAGCCAGTGGCCACCC
CAAACACACCTCTCCTCCTCACACCTGGCCTACGTCCAACCTCTCCACGGCTCTGCCCAGAAGGCTGCACGACTTC
TTGCCCACGTGCGCCTTCAAACGGTAAGAGCTGCAACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGC
GGCGGGAGAGATGCCCATGAACTCAAGTACCCGGACACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCC
ACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCCCCGGA
AGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCCGCTCCAAGACAACCTCGGGGACATGGACACAACAA
GACAGGGTGGCAAGTCTCAACAAGGCGGTGCGCGGCGTCTGAAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGG
GCCGAGGACCCAGCTAGGCCGTACCCCGGTTGCTCCACGGGAAGGGGCACCAGGCAAACTGCCCAAGGCCCCG
AGCCCAGGCTCCCTGGCGGAGGCCTCCGCTGGTCCCGCCAGATCATGGCCGCCACCAGGCTCCCGAGCCGTGGC
TTCTGTCCGGGAACGGCCCCGGCGTCTGGCTGTCCAGCTAG

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FIGURE 6262

MPRGQLSSLDPQGGTTRVPARSRREARAIGTRNLGNCQFGLLTNRKACHFGPTEPSRPKNPAWPLTPVCFHGKGQ
PSKMPKAPEPRGFCRRPFLVPPRSWAPPGSRAVASCPGTARRPGCPASPGASLWGFHRPTPRRSLLLSDLQRPRM
RPSTCPSPAWSPTVPSHSSPGEHSEGTGKGLGEEPTPAYVTQEGSQWPPQTHLSSSHLAYVQLSTALPRRLHDF
LPTCAFKTVRAATERVRHGADRLRGGGRDAHELKYPDTPSTSTTTSTNTAPTGPLSRSPKPRARACAPPKTSVFG
RPPGRNEHHGERPASKTTSGTWTQODRVASLNKAGARRLKACSVADGASRAEDPARPSPRLLPREGAPGKLPKAP
SPGSLAEASAGPAQIMAATRLPSRGFLSGNGPASWLSS

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FIGURE 6263

CCCTCACCTCCCAGGAATGGGGAGGGGGGCATCCTACCCCATATCTGAGGTGCGACTGCGGGACGTAGAGCGGACT
GGGCCTTTCCCGTTGGCGCGTGGCCTCAATCAGGACTTCTTGCCACGTGCGCCTTCAAAACGGTAAGAGCTGCA
ACTGAACGTGTGAGACATGGTGCAGATAGGCTGAGAGGCGGCGGGAGAGATGCCCATGAACTCAAGTACCCGGAC
ACGCCCTCCACTTCTACCACCACGAGTAACACCGCCCCACGGGACCGCTCTCGAGGTCCCCAAGCCAAGGACG
CAAGGAGGAACGCCCCGGCGCGCGGCCAGCAGCGGCGGGCACCGGCCCAATGGCCACGGAACCTCAGCACTGGCAG
TCGGCCCTCCTCACACCGCAGGCGTGCAGTGTGGCCGACGGAGCCTCCCGGGCCGAGGACCCAGCTAGGCCGTCA
CCCCGGTTGCTCCACGGGAAGGGGCACCAGGCCAACTGCCCAAGGCCCGAGCCAGGCTCCCTGGCGGAGGCC
TCCGCTGGACTTCTTGCCACGTGCGCCTTCAAAACGGGCAAGGGCCTGCGCACCCCCAAAGACAAGCGGGGTCC
CCGGAAGGCCCCCAGGCAGAAATGAGCACCACGGGGAACGGCCCGCCTCCAAGACAACCTCGGGGACATGGACAC
AACAGACAGGGTGGCAAGTCTCAACAAGGCGGGCTGGCGTGGGCTCTTCCCCAGCCCCTTGCCGGTGCTGCCA
CGTGAGAAGGGCCCGGTGCCGTCCCGCTATTCCGGAATTGTGGGTTACCTGAAGTTTGAGGCCAAACCCCCA
GCGGTCAGTGGGACGCCAGTCGCCTTTGACCTCTTGGTCAAGCTGGCCTTGCCGTGA

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FIGURE 6264

MPMNSSTRTRPPLLPPRVTPPPRDRSRGPPSQGRKEERPGARPAAGTGPMATELSTGSRPSSHRRRAVWPTEPP
GPRTQLGRHPGCSHGKGHQANCPRPRAQAPWRRPPLDFLPTCAFKTGKGLRTPKDKRGPRKAPRQK

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FIGURE 6265

AGGGAGCGCACGACGTGCGCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCCTCCTTCTTCTGCAGCTCCTGGTGC
TGCTTGTGTGCTCGTTTGGTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCC
ATGGCCGACGAAAAACCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGCAG
GATGGTTCTGTGGTGAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAGCCTATTGTGAACGA
CAGGGATTGTCAGTGAGGCAGATCAGATTCCGATTGACGGGCAACCAATCAATGAAACAGACACACCTGCACAG
TTGGAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTG
CTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTCAATTTGGTTCCAC
CACATCCTGACTACTACCGTATAGTTTTCTCTATTCTTTTCAATTTCCCCCTTCCCTATTCTTTATTGTACATAAA
GTAAGTGGTATATGTACACAAGCATATTGCATTTTTTTTAACTAAACAGCCAATGATATGTTTTGATTGACATCA
AGTGGAGATGGGATGGGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTTCAG
CTCTTATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAAAAACAACAACAACAACATAAAA
ATCCTTGACATACCTTTTTCAATTGGAGAATTTTAAATGATTTTCATTTATCATTGTAAAACCAAGGACAATTTTAT
AACTTTTTCGTACATAGCTGCTACATGTAGGGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAAACAAAAA
GAATCCTAGATACTTTTCCCTTCAAGTCAAGCGTCTTGTTTAAATAAACTGCTTGTTTAAATG

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FIGURE 6266

MADEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSVRQIRFRFDGQPINETDTPAQ
LEMEDEDIDVFQQQTGGVY

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FIGURE 6267

GCGCACCCCTCTGCCCTGGTCCATCGCTGCCGCCTCCTTCTTCTGCAGCTCCTGGTGCTGCTTGIGTGCTCGTTTG
GTGCGGACCTGGTACCTCTTTTGTGAAACGGCAGCTGAGGAGATTCCGGCGCTTGCCATGGCCGACGAAAAACCC
AAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGATGGTTCTGTGGTGCAG
TTTAAGATTAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAGTGGAAATGGAGGATG
AAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACCTGCTTCTTTACTCCAGAA
CTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAAGTGAATTTGGTTCCACCACATCCTGACTACTA
CCGTATAGTTTTCTCTATTCTTTCATTTCCCCCTTCCCTATTCTTTATTGTACATA

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FIGURE 6268

CACAACAAACAGGCCACTGAGAATACAAAGGAGGAAGTGAAAACATATGTGAGAAGATGGCCCAGTCTGATGCTAA
AAAGTTTGTGGAAAGCCAGCCTAAAAAGGACACACCACGGAAAGAGAAGCGTTACGGGAAGAGAAGCAGAAGCC
CCAGGCTGAGCAGGAGGAGAAAAAGGCGGCTGCCCCCTACTCCTGAGGAGGAGATGGATGAATGTGAGCAGGCGCT
GGCCGCTGAGCCCAAGGCCAAGGACCCCTTTGCTCACCTGCCCAAGAGTACCTTTGTGTTGGATGAATTGAAGCT
CAAGTACTCCAATGAGACACACTCTCTGTGGCACTGCCATATTTCTGGGAGCACTTTGATAAGGACTGCTGGTCC
CTGTGGTACTCAGAGTGTGCTTCCCTGAAGAATTCATCAGACCTTCATGAGCTGCAATCTCACTGGAATG
TTCCAGTGACTGGACAAGCTGAGGAAGAATGCCTTCGCCAGTGTCATCCTCTTTGGAACCAACAATATCAGCTCC
ATTTCTGGAGTCTGGGTCTTCCGAGGCCAGGAGCTTGCCCTTCCACTGAGTCCAGATTGGCAGGTGGGCTATGAG
TCATACACATGGCAGAACTGGATCCTGGCAGCGAGGAGACCCAGATGCTGGTTCGAGAGTACTTTTCCTGGGAG
GG

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FIGURE 6269

ATCTTTAAATGGATGAGATGGCTACCACTCAGATTTCCAAAGATGAGCTTGATGAACTCAAAGAGGCCTTTGCAA
AAGTTGATCTCAACAGCAACGGATTCAATTTGTGACTATGAACTTCATGAGCTCTTCAAGGAAGCTAATATGCCAT
TACCAGGATATAAAGTGAGAGAAATTATTTCAGAACTCATGCTGGATGGTGACAGGAATAAAGATGGGAAAATAA
GTTTTGACGAATTTGTTTATATTTTTCAAGAGGTAAAAAGTAGTGATATTGCCAAGACCTTCCGCAAAGCAATCA
ACAGGAAAGAAGGTATTTGTGCTCTGGGTGGAACCTTCAGAGTTGTCCAGCGAAGGAACACAGCATTCTTACTCAG
AGGAAGAAAAATATGCTTTTGTAACTGGATAAAACAAAGCTTTGGAAAATGATCCTGATTGTAGACATGTTATAC
CAATGAACCCCTAACACCGATGACCTGTTCAAAGCTGTTGGTGATGGAATTGTGCTTTGTAAAATGATTAACCTTT
CAGTTCCTGATACCATTGATGAAAGAGCAATCAACAAGAAGAACTTACACCCTTCATCATTGAGGAAAACCTTGA
ACTTGGCACTGAACTCTGCTTCTGCCATTGGGTGTCATGTTGTGAACATTGGTGCAGAAGATTTGAGGGCTGGGA
AACCTCATCTGGTTTTGGGACTGCTTTGGCAGATCATTAAAGATCGGTTTTGTTGCTGACATTGAATTAAGCAGGA
ATGAAGCCTTGGCTGCTTTACTCCGAGATGGTGAGACTTTGGAGGAACCTTATGAAATTGTCTCCAGAAGAGCTTC
TGCTTAGATGGGCAAACCTTTCAATTTGGAAAACCTCGGGCTGGCAAAAATTAACAACCTTAGTGCTGACATCAAGG
ATTCCAAAGCCTATTTCCATCTTCTCAATCAAATCGCACCAAAAGGACAAAAGGAAGGTGAACACCGGATAGATA
TTAACATGTCAGGTTTCAATGAAACAGATGATTTGAAGAGAGCTGAGAGTATGCTTCAACAAGCAGATAAATTAG
GTTGCAGACAGTTTGTACCCTGCTGATGTTGTGCTAGTGGAACCCCAACTCAACTTAGCTTTCTGTTGGCTAACC
TGTTTAATAAATAACCCAGCACTAAGCCAGAGAACCAGGATATTGACTGGACTCTATTAGAAGGAGAAACTC
GTGAAGAAAGAACCTTCCGTAACCTGATGAACCTCTCTTGGTGTCAATCCTCACGTAAACCATCTCTATGCTGACC
TGCAAGATGCCCTGGTAATCTTACAGTTATATGAACGAATTAAGTTTCTGTTGACTGGAGTAAGGTTAATAAAC
CTCCATACCCGAAACTGGGAGCCAACATGAAAAAGCTAGAAAACCTGCAACTATGCTGTTGAATTAGGGAAGCATC
CTGCTAAATTCTCCCTGGTTGGCATTGGAGGGCAAGACCTGAATGATGGGAACCAACCCTGACTTTAGCTTTAG
TCTGGCAGCTGATGAGAAGATATACCCTCAATGTCTTGGAAAGCTTTGGAGATGGTCAGAAAGCCAATGACGACA
TCATTGTGAACTGGGTGAACAGAACGTTGAGTGAAGCTGGAAAATCAACTTCCATTGAGATTTTAAGGACAAGA
CGATCAGCTCCAGTTTGGCAGTTGTGGATTTAATTGATGCCATCCAGCCAGGCTGTATAAACTATGACCTTGTGA
AGAGTGGCAATCTAACAGAAGATGACAAGCACAATAATGCCAAGTATGCAGTGTCAATGGCTAGAAGAATCGGAG
CCAGAGTGTATGCTCTCCCTGAAGACCTTGTGGAAGTAAAGCCCAAGATGGTCATGACTGTGTTTGCATGTTTGA
TGGGCAGGGGAATGAAGAGAGTGTAAAATAACCAATCTGAATAAAACAGCCATGCTCCCAGGTGCATGATTTCGCA
GGTCAGCTATTTCCAGGTGAAGTGCTTATGGCTTAAGGAACCTTTGGCCATTCAAAGGACTTTTCATTTTGATTA
ACAGGACTAGCTTATCATGAGAGCCCTCAGGGGAAAGGGTTTAAGAAAAACAACCTCCTCTTTCCCATAGTCAGAG
TTGAATTTGTGAGGCACGCCTGAAATGTGCTCATAGCCAAAACATTTTACTCTCTCCTCCTAGAATGCTGCCCTT
GACATTTCCCATGCTGTATGTTATTTCTTGCTCTGTTATCTTTTGCCCTCTTAGAATGTCCCTCTCTTGGGACT
TGCTTAGATGATGGGATATGAATATTATTAGACAGTAATTTTGCTTTCCATCCAGTATGCTAGTTCTTATTTCGAG
AACTATGGTCAGAGCGTATTTGGATATGAGTATCCTTTGCTTATCTTTGTAGTACTGAAAATTTGCCGAAGTAAC
TGGCTGTGCAGAATGTAATAGAAGCTTTTCTTATTCTTTTATTCTTAAGATCAGTATCTTTTTACAGTATTCTTT
CTACATGATCCTTTTTTGTACATTTAAGAATATTTTGATTATATTAACAAGACTGCTGATTTTGTACTTTTTT
TAAGGGGTCTTCAAGTAAGTAAACATACATCGTAGCTAGAAGAAAAATGTACCTTAAATTTGCATCTTCCCTCT
CATACCCAAGCTGTAAACAATTGAAATATTTGTCTTAAATCACTTGGTTCAATACATGCTTATTTGTTTTAAAA
CCTGTATCATCAAACCTCTCTCTTAAATTTAAAAATGCTGTTGAATATGATACTTTTGAGGAGAGAGTGTGCTCAG
AACTTAGACGGGATTTGGTAGGCCAAGTATGCTAAGTGTACAATATATTTTTTAATTTTACACCTGAAACAAAGA
AATGTGGTCACTAAAAATAAAGTATATATGTAGGAATTAATGTACTCTTGCTTTGTCAAGCTGTTTGCTATAGT
TTCCAAGGTATTATGTTACTCTAACTCTGAAAAGTGATGTAATCTGGTAGCAATGTAGTAGTTCAAATAAAGGCA
TTTACATAAT

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FIGURE 6270A

TGCCAAGGCTCCAGCCCGGCCGGGCTCCGAGGCGAGAGGCTGCATGGAGTGGCCGGCGCGGCTCTGCGGGCTGTG
GGCGCTGCTGCTCTGCGCCGGCGGGGGGGGGGGGGCGCCGCGCCTACGGAACTCAGCCACCTGTGAC
AAATTTGAGTGTCTCTGTTGAAAACCTCTGCACAGTAATATGGACATGGAATCCACCCGAGGGAGCCAGCTCAAA
TTGTAGTCTATGGTATTTTAGTCATTTTGGCGACAAACAAGATAAGAAAATAGCTCCGGAACTCGTCGTTCAAT
AGAAGTACCCCTGAATGAGAGGATTTGTCTGCAAGTGGGGTCCCAGTGTAGCACCATGAGAGTGAGAAGCCTAG
CATTTTGGTTGAAAAATGCATCTCACCCCCAGAAGGTGATCCTGAGTCTGCTGTGACTGAGCTTCAATGCATTTG
GCACAACCTGAGCTACATGAAGTGTCTTGGCTCCCTGGAAGGAATACCAGTCCCAGACCTAATACTCTCTA
CTATTGGCAGAGCCTGGAAAAAATTCATCAATGTGAAAACATCTTTAGAGAAGGCCAATACTTTGGTTGTTT
CTTTGATCTGACCAAAGTGAAGGATTCCAGTTTTGAACAACACAGTGTCCAAATAATGGTCAAGGATAATGCAGG
AAAAATTAAACCATCCTTCAATATAGTGCCTTTAATTCCCGTGTGAAACCTGATCCTCCACATATTAAAAACCT
CTCCTTCCACAATGATGACCTATATGTGCAATGGGAGAATCCACAGAATTTTATTAGCAGATGCCTATTTTATGA
AGTAGAAGTCAATAACAGCCAAACTGAGACACATAATGTTTTCTACGTCCAAGAGGCTAAATGTGAGAATCCAGA
ATTTGAGAGAAATGTGGAGAATACATCTTGTTCATGGTCCCTGGTGTCTTCTCTGATACTTTGAACACAGTCAG
AATAAGACTCAAAACAAATAAGTTATGCTATGAGGATGACAACTCTGGAGTAATTGGAGCCAGAAATGAGTAT
AGGTAAGAAGCGCAATTCCACACTCTACATAACCATGTTACTCATTGTTCCAGTCATCGTCGAGGTGCAATCAT
AGTACTCCTGCTTTACCTAAAAAGGCTCAAGATTATTATATTTCCCTCCAATTCTCTGATCCTGGCAAGATTTTTAA
AGAAATGTTTGGAGACCAGAATGATGATACTCTGCACTGGAAGAAGTACGACATCTATGAGAAGCAACCAAGGA
GGAAACCGACTCTGTAGTGCTGATAGAAAACCTGAAGAAAGCCTCTCAGTGGAGGAGATAATTTATTTTACCTT
CACTGTGACCTTGAGAAGATTCTTCCATTCTCCATTTGTTATCTGGGAACCTATTAAATGGAACTGAAACTAC
TGCACCATTTAAAAACAGGCAGCTCATAAGAGCCACAGGTCTTTATGTTGAGTCGCGCACCGAAAACTAAAAAT
AATGGGCGCTTTGGAGAAGAGTGTGGAGTCATTCTCATTGAATTATAAAAGCCAGCAGGCTTCAAACTAGGGGAC
AAAGCAAAAAGTGATGATAGTGGTGGAGTTAATCTTATCAAGAGTTGTGACAACCTCCTGAGGGATCTATACTTG
CTTTGTGTTCTTTGTGTCAACATGAACAAATTTTATTGTAGGGGAACCTATTGGGGTGCAATGCTAATGTCA
AACTTGAGTCACAAAGAACATGTAGAAAACAAAATGGATAAACTGATATGATTGTTTGGGATCCTATTGAAC
CATGTTTGTGGCTATTAAAACTCTTTTAAAGTCTGGGCTGGGTCCGGTGGCTCACGCCTGTAATCCCAGCAATT
TGGGAGTCCGAGGCGGGCGGATCACTCGAGGTCCAGGATTCAGACCAGCCTGACCAAAATGGTGAAACCTCCTC
TCTACTAAAACCTACAAAATTAACCTGGGTGTGGTGGCGGTGCCGTGTAATCCCAGCTACTCGGGAAGCTGAGGCA
GGTGAATTGTTTGAACCTGGGAGGTGGAGGTTGCAGTGAGCAGAGATCACACCACTGCCTAGCCTGGGTGAC
AGAGCAAGACTCTGTCTAAAAACAAAACAAAACAAAACAAAACAAAACCTCTTAATATTCTGGAGTCATCA
TTCCCTTCGACAGCATTTTCTCTGCTTTGAAAGCCCCAGAAATCAGTGTGGCCATGATGACAACACAGAAAA
ACCAGAGGCAGCTTCTTTGCCAAGACCTTTCAAAGCCATTTTAGGCTGTTAGGGGCAGTGAGGATGACTC
CTTGGGTATTAGAGTTTCAACCATGAAGTCTCTAACAATGTATTTTCTTACCTCTGCTACTCAAGTAGCATTTA
CTGTGCTTTTGGTTTGTGCTAGGCCCCGGGTGTGAAGCACAGACCCCTTCCAGGGGTTTACAGTCTATTTGAGA
CTCCTCAGTCTTGGCACTTTTTTTTTTAACTCTCCACCAGTCATTTTTCAGACCTTTTAACTCCTCAATTCCAAC
ACTGATTTCCCTTTTGCATTCTCCCTCCTTCCCTTCTTGTAGCCTTTTGACTTTTATTGGAAATTAGGATGTA
AATCTGCTCAGGAGACCTGGAGGAGCAGAGGATAATTAGCATCTCAGGTAAAGTGTGAGTAATCTGAGAAACAAT
GACTAATTCTTGCATATTTTGTAACTTCCATGTGAGGGTTTTTCAGCATTGATATTTGTGCATTTTCTAAACAGAG
ATGAGGTGGTATCTTCACGTAGAACATTGGTATTGCTTGGAGAAAAAAGAATAGTTGAACCTATTTCTTTCT
TTACAAGATGGGTCCAGGATTCCTCTTTCTCTGCCATAAATGATTAATTAATAGCTTTTGTGCTTACATTGG
TAGCCAGCCAGCCAAGGCTCTGTTATGCTTTTGGGGGGCATATATTGGGTTCCATTCTCACCTATCCACACAAC
ATATCCGTATATATCCCTCTACTCTTACTTCCCCCAAATTTAAAGAAGTATGGGAAATGAGAGGCATTTCCCCC
ACCCCATTTCTCTCTCACACACAGACTCATATTACTGGTAGGAACCTTGAGAACTTTATTTCAGTTGTTCAAA
CATTTACCAATCATATTAATACAATGATGCTATTTGCAATTCCTGCTCCTAGGGGAGGGGAGATAAGAAACCTC
ACTCTCTACAGTTTGGGTACAAGTGGAACCTGCTTCCATGGCCGTGTAGAAGCATGGTGCCCTGGCTTCTCTG
AGGAAGCTGGGGTTCATGACAAATGGCAGATGTAAAGTTATTCTTGAAGTCAGATTGAGGCTGGGAGACAGCCGTA
GTAGATGTTCTACTTTGTTCTGCTGTCTCTAGAAAGAATATTGGTTTTCTGTATAGGAATGAGATTAATTCC
TTTCCAGGTATTTATAATTCTGGGAAGCAAAACCCATGCCTCCCCCTAGCCATTTTACTGTTATCCTATTTAG
ATGGCCATGAAGAGGATGCTGTGAAATTCCTCAACAAACATTGATGCTGACAGTCATGCAGTCTGGGAGTGGGGAA

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FIGURE 6270B

GTGATCTTTTGTTCCTCCTCTTTTAGCAGTAAAATAGCTGAGGGAAAAGGGAGGGAAAAGGAAGTTATGG
GAATACCTGTGGTGGTTGTGATCCCTAGGTCTTGGGAGCTCTTGGAGGTGTCTGTATCAGTGGATTTCCCATCCC
CTGTGGGAAATTAGTAGGCTCATTACTGTTTTAGGTCTAGCCTATGTGGATTTTTCTTAACATACCTAAGCAA
ACCCAGTGTGAGGATGGTAATTCTTATTCTTTCGTTCAAGTTTTCCTTCATCTGGGCACTGAAGGGATA
TGTGAAACAATGTTAACATTTTGGTAGTCTTCAACCAGGGATTGTTTCTGTTTAACTTCTTATAGGAAAGCTTG
AGTAAATAAATATTGTCTTTTGTATGTCAAGCGGGCCGCCACCGCGGTGGAACTCCAGCTT

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FIGURE 6271

MEWPARLCGLWALLLCAGGGGGGGAAPTETQPPVTNLSVSVENLCTVIWTWNPPEGASSNCSLWYFSHFQDKQD
·KKIAPETRRSIEVPLNERICLQVGSQCSTNESEKPSILVEKCISPPEGDPESAVTELQCIWHNLSYMKCSWLPGR
NTSPDTNYTLYYWHRSLEKIHQCENIFREGQYFGCSFDLTKVKDSSFEQHSVQIMVKDNAGKIKPSFNIVPLTSR
VKPDPPHIKNLSFHNDLQVWENPQNFISRCLFYEEVENNSQTETHNVFYVQEAKCENPEFERNVENTSCFMVP
GVLPTLNTVRIRVKTNKLQYEDDKLWSNWSQEMSIGKKRNSTLYITMLLIVPVIVAGAIIVLLLYLKRLKIIF
PPIPDPGKIFKEMFGDQNDTLHWKKYDIYEKQTKKEETDSVVLIENTLKKASQ

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FIGURE 6272

GACCCACGCGTCCGGGGAGGAGAAAGTGGCGAGTTCCGGATCCCTGCCTAGCGCGGCCCAACCTTTACTCCAGAG
ATCATGGCTGCCGAGGATGTGGTGGCGACTGGCGCCGACCCAAGCGATCTGGAGAGCGGCGGGCTGCTGCATGAG
ATTTTCACGTCGCCGCTCAACCTGCTGCTGCTTGGCCTCTGCATCTTCTGCTCTACAAGATCGTGCGCGGGGAC
CAGCCGGCGGCCAGCGGCGACAGCGACGACGAGCGCCGCCCTCTGCCCCGCCTCAAGCGGCGCGACTTCACC
CCCGCCGAGCTGCGGCGCTTCGACGGCGTCCAGGACCCGCGCATACTCATGGCCATCAACGGCAAGGTGTTTCGAT
GTGACCAAAGGCCGCAAATTCTACGGGCCCCGAGGGGCCGTATGGGGTCTTTGCTGGAAGAGATGCATCCAGGGGC
CTTGCCACATTTTGCCTGGATAAGGAAGCACTGAAGGATGAGTACGATGACCTTTCTGACCTCACTGCTGCCAG
CAGGAGACTCTGAGTGACTGGGAGTCTCAGTTCACTTTCAAGTATCATCACGTGGGCAAACCTGCTGAAGGAGGGG
GAGGAGCCCCACTGTGTACTCAGATGAGGAAGAACCAAAAGATGAGAGTGCCCCGAAAAATGATTAAAGCATTTCAG
TGGAAGTATATCTATTTTTGTATTTTGCAAAATCATTGTAAACAGTCCACTCTGTCTTTAAACATAGTGATTAC
AATATTTAGAAAGTTTTGAGCACTTGCTATAAGTTTTTAATTAACATCACTAGTGACACTAATAAAATTAACCTT
CTTAGAATGCATGATGTGTTTGTGTGTGCACAAATCCAGAAAGTGAAGTGCAGTGCTGTAATACACATGTTAATAC
TGTTTTTCTTCTATCTGTAGTTAGTACAGGATGAATTTAAATGTGTTTTCTTGAGAGACAAGGAAGACTTGGGT
ATTTCCCAAAACAGGTAAAAATCTTAAATGTGCACCAAGAGCAAAGGATCAACTTTTAGTCATGATGTTCTGTAA
AGACAACAAATCCCTTTTTTTTTTCTCAATTGACTTAACTGCATGATTTCTGTTTTATCTACCTCTAAAGCAAATC
TGCAAGTGTTCCAAAGACTTTGGTATGGATTAAGCGCTGTCCAGTAACAAAATGAAATCTCAAAACAGAGCTCAGC
TGCAAAAAGCATATTTCTGTGTTTCTGGACTGCACTGTTGTCCTTGCCCTCACATAGACACTCAGACACCCCTC
ACAAACACAGTAGTCTATAGTTAGGATTAAAATAGGATCTGAACATTCAAAAGAAAGCTTTGGAAAAAAGAGCT
GGCTGGCCTAAAAACCTAAATATATGATGAAGATTGTAGGACTGTCTTCCCAAGCCCCATGTTTCATGGTGGGGCA
ATGGTTATTTGGTTATTTTACTCAATTGGTTACTCTCATTGAAATGAGGGAGGGACATACAGAATAGGAACAGG
TGTTTGCTCTCCTAAGAGCCTTCATGCACACCCCTGAACCACGAGGAAACAGTACAGTCGCTAGTCAAGTGTTT
TTAAAGTAAAGTATATTCATAAGGTAACAGTTATTCTGTTGTTATAAACTATACCCACTGCAAAAGTAGTAGTC
AAGTGCTAGGTCTTTGATATTGCTCTTTTGGTTAACTAAGCTTAAGTAGACTATACAGTTGTATGAATTTGT
AAAAGTATATGAACACCTAGTGAGATTTCAAACCTGTAATTGTGGTTAAATAGTCATTGTATTTCTTGGAAC
GTGTTTTATGATTTTACCTCAAATCAGAAAACAAAATGATGTGCTTTGGTCAGTTAATAAAAATGGTTTTACCCA
CTAAAAA

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FIGURE 6273

MAAEDVVATGADPSDLESGLLHEIFTSPNLNLLLGLCIFLLYKIVRGDQPAASGDSDDDEPPPLPRLKRRDFTP
AELRRFDGVQDPRILMAINGKVFDTVKGKRFYGPYGVFAGRDASRGLATFCLDKEALKDEYDDLSDLTAAQQ
ETLSDWESQFTFKYHHVGKLLKEGEEPTVYSDEEEPKDESARKND

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FIGURE 6274

CCGCAGCGCCGGAGTCAAAGCCGGTTCCCGGCCCCAGTCCCGTCTGCAGCAGTCTGCCTCCTCTTTCAACATGAC
AGATGCCGCTGTGTCTTCGCCAAGGACTTCCTGGCAGGTGGAGTGGCCGCAGCCATCTCCAAGACGGCGGTAGC
GCCCCATCGAGCGGGTCAAGCTGCTGCTGCAGGTGCAGCATGCCAGCAAGCAGATCACTGCAGATAAGCAATACAA
AGGCATTATAGACTGCGTGGTCCGTATTCCCAAGGAGCAGGGAGTTCTGTCTTCTGGCGCGGTAACCTGGCCAA
TGTCATCAGATACTTCCCCACCCAGGCTCTTAACCTTCGCCTTCAAAGATAAATACAAGCAGATCTTCTGGGTGG
TGTGGACAAGAGAACCCAGTTTGGCTCTACTTTGCAGGGAATCTGGCATCGGGTGGTGCCGCAGGGGCCACATC
CCTGTGTTTTGTGTACCCCTCTTGATTTTGGCCGTACCCGTCTAGCAGCTGATGTGGGTAAAGCTGGAGCTGAAAG
GGAATTCCGAGGCCTCGGTGACTGCCTGGTTAAGATCTACAAATCTGATGGGATTAAGGGCCTGTACCAAGGCTT
TAACGTGTCTGTGCAGGGTATTATCATCTACCGAGCCGCCTACTTCGGTATCTATGACACTGCAAAGGGAATGCT
TCCGGATCCCAAGAACACTCACATCGTCATCAGCTGGATGATCGCACAGACTGTCACTGCTGTTGCCGGGTTGAC
TTCCTATCCATTTGACACTGTTCCGCCGCCGCATGATGATGCAGTCAGGGCGCAAAGGAACTGACATCATGTACAC
AGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGGCAAAGCTTTTTCAAGGGTGCATGGTCCAA
TGTTCTCAGAGGCATGGGTGGTGCTTTTGTGCTTGTCTTGATGATGAAATCAAGAAGTACACATAAGTTATTTT
CTAGGATTTTTCCCCCTGTGAACAGGCATGTTGTATTATATAACATATCTTGAGCATTCTTGACAGACTCCTGGC
TGTCAGTTTCTCAGTGGCAACTATTTACTGGTTGAAAATGGGAAGCAATAATATTCATCTGACCAGTTTTCTCTT
AAAGCCATTTCCATGATGATGATGATGGGACTCAATTGTATTTTTATTTCAGTCACTCCTGATAAATAACAAAT
TTGGAGAAATAAAAATATCTAAAAT

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FIGURE 6275

GCGACCCTCTTCTTGGCGTAGAGTTTTTCAGATTGCTCTTGGGAATCATGCCGAAAGTAGTGTCTCGGTTCAGTAGT
CTGCTCTGACACTCGGGACCGGGAGGAATATGACGACGGCGAGAAGCCCCCTCCATGTTTACTACTGTTTGTGCGG
CCAGATGGTCCTAGTGCTGGACTGCCAGTTAGAGAAAATTGCCCATGAGGCCCGGGACCGGTCCCGTGTGATTGA
TGCTGCCAAACATGCCCATAAAGTTTTGTAAACACAGAAGATGAGGAGACTATGTATCTGCGGAGACCTGAAGGCAT
TGAACGACAGTACAGGAAGAAAATGTGCAAAGTGTGGACTGCCGCTCTTCTACCAATCCCAGCCAAAGAATGCTCC
TGTTACCTTCATTGTGGATGGAGCAGTAGTCAAGTTTGGCCAGGGCTTTGGGAAAACGAACATATATACTCAGAA
ACAAGAGCCTCCTAAGAAGGTGATGATGACCAAACGGACCAAAGACATGGGCAAGTTCAGTTCGTACCCGTGTC
TACCATTGATGAAGAGGAAGAGGAGATTGAGGCTAGGGAAAGTTGCTGACTCATATGCACAGAATGCCAAAGTGAT
TGAAAAACAGCTGGAGCGCAAAGGCATGAGCAAGAGGCGACTGCAAGAGCTGGCTGAATTGGAAGCCAAGAAAGC
GAAAATGAAGGGGACCTTGATTGACAACCAGTTCAAATAACCAGGCCTTTTTCTAAGCCCTAGACTAGAGGCAAG
CATTTAGATCAGGAGGCAAAGTAATTTCTTGATTACATAGACGGATTCTATTTATGCCCTAGCAGAAGGCTTTA
CGTTGTTTCCCATTGATTCTCCTACATTAGTGAGGTCTTTAACTGAGTCCATTTAACTTGCTTTCTTTTTTTTT
TTTTTTTTTTTGTAGATAAAGTCTTGCTCTTTGCGCCAGGATGGAGTGCAGTGGTGCATCTCGGCTCACTGCAAC
CTCCGCTCCCGGGTTCAAGCAGTTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCAC
GCCTGGGCAACATGGTGAAACCCTGTCTCTACTAAAATACAAAAGAAATTAGCCAGGTGTGGCGGCATACCCCTG
TAGTCACGGCTACTTGGGAGGCAGAGGCAGGAGAATTGCTTGAACTCGGGAGGTGGAGGTTGCAGTGAGCTGAGA
TTGCACCACTGTACTCCAGCACTCCAGCCTGGGCGACAGAGTGAGACTCTGTCTCTACAAAAAAAAAAAAAAAA
AAAGTAACCCAAGGGAGGGAGCTACCCTCTAGTCGGGCAGCTGATACTGCTTCCTTGCATGGATACATGGGAGGG
AGACGTTATAGATTAAAGAAATGATAGCAAGATAAACAATAATGATTTGTTGGGTATCTTTTACTTTACATTTGTTA
TTTGACAGAGGAGTGTGTATATATAGATGTTATTTTATGTCACACTGCTTCAATGATACCTATATCCATGTGTTT
GTATCCATGTTTTTATCCATTCAACTGTATTAAAAGGTGTTGGGACAGG

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FIGURE 6276

GAAGAACTGGAAGTGGGCTGGCCATAGGGGGAAGCGGCGCGTTAAATCCGCCCCCTCTCCATACCCTACTTTCAA
GGGGTGGGCGGTAGAGGGGAGGTTGGGGTGGAGCAGCGGCGAGGGGGCCCCCTCCCTTGACCTCCCCCACC
ACTTGGTCGCGCCCGAAGTGTAACACTTTCTCTTTGTGCGGAGGAGCTCCTCTGTTTCCTGTGCAGTAGCTCCCGT
TGCGGCGGCACCCGTGGCAGCCCTGGCGGACGCAGGAGCGATGGCAGCGACCGATATAGCTCGCCAGGTGGGTGA
AGGTTGCCGAAGTGTCCCCCTGGCTGGACATGTGGGGTTTGACAGCTTGCCTGACCAGCTGGTGAATAAGTCCGT
CAGCCAGGGCTTCTGCTTCAACATCCTGTGCGTGGGAGAGACAGGTTTGGGCAAGTCCACCCTCATGGACACCC
GTTCAACACCAAATTCGAAGGGGAGCCAGCCACCCACACACAGCCGGGTGTCCAGCTCCAGTCTAATACCTATGA
CCTCCAAGAGAGCAACGTGAGGCTAAAGCTCACGATCGTTAGCACAGTTGGCTTTGGGGACCAGATCAACAAAGA
GGACAGCTACAAGCCTATCGTGGAATTTCATCGATGCACAATTCGAGGCCTACCTGCAGGAAGAGCTAAAGATCCG
AAGAGTGCTACACACCTACCATGACTCCCGAATCCATGTCTGCTTGTATTTTCATTGCCCCCAGGGTCAATTCCT
GAAGTCTCTGGACCTAGTGACTATGAAGAAGCTGGACAGTAAGGTGAACATCATCCCCATCATTGCCAAAGCAGA
TGCCATTTGAAGAGTGAGCTAACAAGGTTCAAAATCAAAATCACCAGCGAGCTTGTGAGCAACGGAGTCCAGAT
CTATCAGTTTCTACAGATGATGAGTCGGTGGCAGAGATCAATGGAACCATGAACGCCACCTGCCGTTTGTCTGT
CATTGGCAGCACAGAAGAACTGAAGATAGGCAACAAGATGATGAGGGCGCGGCAGTATCCTTGGGGCACTGTGCA
GGTTGAAAACGAGGCCCCACTGCGACTTTGTGAAGCTGCGGGAGATGCTGATTGCGGTCAACATGGAGGATCTGCG
GGAGCAGACCCACACCCGGCCTATGAGCTGTATCGCCGCTGTAAGCTGGAGGAGATGGGCTTCAAGGACACCGA
CCCTGACAGCAAACCCCTCAGTTTACAGGAGACATATGAGGCCAAAAGGAACGAGTTCTAGGGGAAGTCCAGAA
AAAAGAAGAGGAGATGAGACAGATGTTTCGTCCAGCGAGTCAAAGAGAAAGAAGCGGAGCTCAAAGAGGCAGAGAA
AGAGCTGCACGAGAAGTTTGACCGTCTGAAGAACTGCACCAGGACGAGAAGAAGAACTGGAGGATAAGAAGAA
ATCCCTGGATGATGAAGTGAATGCTTTCAAGCAAAGAAAGACGGCGGCTGAGCTGCTCCAGTCCAGGGCTCCCA
GGCTGGAGGCTCACAGACTCTGAAGAGAGACAAAGAGAAGAAAAATAATCCATGGCTGTGTACTGAATAGTATTC
CCCCTACAGCTGGACTGGACTCCATTTAGCCTTTTAAGCCGAGGTTCTATTTTAAGTACAGCTTTTCTTTTGG
GGTGCCAGGCAGCGAGGCCCCCACCCTATCCTGCCATGTACTTCAAGCTCACTTCTTCTTTTGTAGTTCCGCA
ACTTGCTCCTGCCTCCCAGCCCCACTGGCACTGACCATGACCACCTACTTCTATTTTTTTTAGAGTTTCTTTT
TTTGATCACTTACTTTCAAAGCACACAGTCAAACAAGGTTATGCCAAATTTCCAGGCCTTTTGAAGTATTGAGA
AGGGGAAGGGGATTTCTCACTTCAATTATAGATCATAATAGGAAGCAAAAGAAAAAATGAAAAGCAAACATAT
GCACGCACTTTTCTTGTGACAAAGCAAGAATGTAGGTTTGCTGTGTAGGTTTGGTGCTCTATTGATTGGTGAGT
GACCAGAGCAAGTATGAAGGTGATGCTGCCAAAGCACAAAGCCAGTTTCTTGGGAAAATTCAAGTTACAGTGGAGT
ATTTTTTTGAAGACCATATGCTTGGAGGTAGAAACAAACCAACGACCAAAAAAAAAAAAAAAAAAATCTGCTC
AGATACTCAGCCAGTAGCTCAGAGAGATGCTGAGTTAGGCCTGTCAGGTCTCCTTGGGAAAGGCTTCATATTTGC
AACTTTGATGATTCTATGTCCAGCTTCAGAGCTGCTTTCCAGAAATTACGCTTAAACAACCAACCGGTAACCA
CCACTTCCCCACACCGCCGCTGGTAATTATTTGCATTACAAACCGGAGGCGCCCTCATTGCAATTTGTGTACAG
ATTAAGTAGTTAAGGCTTGAGAAGCTCTGAATAATTCAAAGTATTAGACCCACACAGCCTTGGAGAGACCTTCA
GAACTAAGGAGGAGTTTTATATTAAGGGAGACATTTTAGTCAGTAAGACGATATAACCTACTTACTCCGTAAGG
GGAAATGAAGGCCCGGAGAAGGGAAGGGACTTGACCGAGGTCCCACTTCTGTTTCGAGGCAGAAGCCAGACTAAT
TTTCATGCCTCCTGACTCCCAATCAGTTTCACAAAGGGATTCAATCTGTTTATATACGTTACATTCCTGG

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FIGURE 6277

MAATDIARQVGEGCRTVPLAGHVGFDSLDPQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHT
QPGVQLQSNQTYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHV
CLYFIAPTGHSLKSLDLVTMKKLDKVNIIPIIAKADAISKSELTCKFKIKITSELVSNGVQIYQFPTDDSVAEI
NGTMNAHLPPFAVIGSTEELKIGNKMMRARQYPWGTQVQVENEACDFVKLREMLIRVNMEDLREQTHTRHYELRR
CKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLH
QDEKKKLEDKKSLLDDEVNAFKQRKTAELLQSQGSQAGGSQTLKRDKEKKNNPWLCTE

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FIGURE 6278

CTTCCGCCAGCTTCCCTCCTCTTCCTTTCTCCGCCATCGTGGTGTGTTCTTGA CTCCGCTGCTCGCCATGTCCTTC
TCACAAGACTTTTCAGGATTAAGCGATTCTGGCCAAGAAACAAAAGCAAAATCGTCCCATTCCCCAGTGGATTCTG
GATGAAAAC TGGAATAAAATCAGGTACAAC TCCAAAAGGAGACATTGGAGAAGAACCAAGCTGGGTCTATAAGG
AATTGCACATGAGATGGCACACATATTTATGCTGTCTGAAGGTCACGATCATGTTACCATATCAAGCTGAAAATG
TCACCACTATCTGGAGATTTTCGACGTGTTTTCTCTCTGAATCTGTTATGAACACGTTGGTTGGCTGGATTTCAGT
AATAAATATGTAAGGCCTTTCTTTTT

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FIGURE 6279

MSSHKTFRIKRFLAKKQKQNRPIPWIRMKTGNKIRYNSKRHRWRRTKLGL

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FIGURE 6280

AGATTCCGTCGCTTCTTCCGGAGCCGTACGTGGCACCGCCCCGCTCGCGGGCGGGCCGCGGGGCTTGCTGGGAAGA
GAGGCGAAGCCAGGTCACCTTTCAAGGACCCAGAAGTAGGGTTTTGGCCTAGGTAACGGGGCAGAGATGTGGTTC
GAGATTCTCCCCGACTCTCCGTCATGGGCGTGTGCTTGTTGATTCCAGGACTGGCTACTGCGTACATCCACAGG
TTCATAACGGGGGCAAGGAAAAAGGGTTGCTCATTTTGGGTATCACTGGAGTCTGATGGAAAGAGATAGGCGC
ATCTCTGGAGTTGATCGTTACTATGTGTCAAAGGGTTTGGAGAACATTGATTAAGGAAGCATTTTCCTGATTGAT
GAAAAAATAACTCAGTTATGGCCATCTACCCCTGCTAGAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTA
TGTAAGTCTTAATAAAAAATAAAATG

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FIGURE 6281

ATGGACGTAGACACACGAGCCTATTTACCTCCGCTACCATAATCATCGCTATTCCCACCAGCGTCAAAC TGACT
CGCTACACTCTACGGAAGCAATATGAAGTGATCTGCTGCAGTACTCTGAGCCCTAGGGTTTCATTTTCTCTTCAC
TGTGGCCTAACC GG CATTGTACTAGCAAAC TCATCATTAGACATCGTACTACACGACACATACTACGTCGTAGCT
CACTTCCATTACGTCCTATCAATAGGAGCTGTATTCGCCATCACAGGAGCCAATATTGTACCTATCACCATACTA
GTCTTTGCTGCCTGCAAGGCAGCAGTAGGCCTAGCCCTACTAGTCTCAATCTCTAACACATATGGCCTAGACTAC
GTACATAACCTAAGCCTACTCCAATGCTAA

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FIGURE 6294

MEEMKKTAIRLPKKGKQKPIKTEWNSRCVLFYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSM
SPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPF
PARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLPPGSVHYKKLYVSRGSASTS
LPNETLSELETPGKYSLTPPNHWGHPHRYLQHL

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FIGURE 6295A

GCTGTTTGGAGTGTACCGTCTCAGTAATGAATCCAGAAGAACAAATCGTGACATGGCTTATATCTTTGGGAGTT
TTAGAGTCCCTTAAAAAGACCATCTGTGATCCGGAGGAGTTTTTAAAGTCTCGCTGAAAAATGGGGTAGTTCTG
TGCAAACCTGATCAACAGACTCATGCCTGGCTCTGTGGAAAAGTTTTGTCTGGATCCCCAACTGAAGCTGACTGC
ATCAACAACATCAATGACTTCCTGAAAGGATGTGCAACCCCTCCAAGTGAAAAATATTGATCCTGATGACCTTTAT
TCAGGGGTCAATTTCTCCAAGTACTGAGTACTCTTTTAGCTGTCAACAAAGCAACAGAAGATCAGCTATCAGAA
AGACCATGTGGACGTTCTCTCTTCTTCTAGTGCTGCTAATACTTCTCAGACAAACCCACAGGGAGCAGTTTCTAGC
ACAGTTTCAGGGCTGCAAAGGCAGTCAAAGACAGTGGAGATGACGGAAAAATGGAAGTCATCAGTTGATAGTAAAA
GCAAGATTCAACTTTAAGCAGACTAATGAGGATGAACTGTCAGTTTGTAAAGGGGGACATCATTACGTCACACGA
GTTGAAGAAGGAGGCTGGTGGGAAGGCACATTAAATGGGAGAACAGGCTGGTTCCCCAGTAATTATGTCCGTGAA
ATTAAATCCAGTGAGAGACCTCTCTCCCCAAAAGCCGTCAAAGGATTGAACTGCTCCACTACCAAGAATTAT
TATACTGTGGTGTTACAGAACATCCTGGACACTGAAAAAGAATATGCTAAAGAACTTCAGTCTCTTCTGTACT
TACTTAAGACCCCTGCAGTCCAATAACAATCTGAGTACTGTGGAGGTTACATCTTTACTGGGAACTTCGAGGAA
GTATGCACATTTCAACAGACACTCTGCCAAGCCTTGGAAGAATGTTCAAAGTTCCAGAAAACCAGCACAAAGTA
GGAGGTTGTCTACTGAGTCTCATGCCTCATTTTAAATCTATGTATCTGGCTTACTGTGCAAACCATCCTTCAGCT
GTAAATGTGCTCACTCAGCACAGTGTATGAGTTGGAACAATTCATGGAAATCAAGGTGCATCGAGCCAGGTATC
CTCATTTTAAACAACAAACCTCAGCAAACCATTTCATGCGACTGGAGAAATATGTTACTCTCTTGCAAGAGTTAGAA
CGGCATATGGAGGATACTCATCCAGATCATCAGGATATTCTGAAAGCAATCGTAGCATTCAAACCTCTCATGGGG
CAATGTCAAGATCTGAGGAAGAGAAAACAGCTGGAGTTACAGATACTGTCCGAACCTATTACGGCATGGGAAGGA
GAAGATATTAAAAACTTGGGAAATGTGATTTTTATGTCACAAGTAATGGTGCAGTATGGAGCATGTGAGGAAAAA
GAGGAGCGGTACCTTATGTTATTTTTCAAATGTCTGATAATGTTATCTGCAAGTCTCGGATGAGTGGCTTTATC
TATCAGGGAAAAATACCAATAGCAGGAACGGTGGTGACTAGATTAGATGAAATTGAAGGGAATGACTGCACATTT
GAAATCACTGGTAACACAGTGGAGAGAATTGTGGTCCATTGTAACAACAACCAGGACTTCCAGGAATGGTTGGAG
CAGCTGAACAGACTGATCAGAGGACCTGCCTCTTGCAAGTTTATTATCCAAAACCTCATCGTCATCATGTAGTGC
CATTCTTCTTTTAGCTCTACCGGACAGCCCCGAGGACCTTGGAGCCTCCTCAAATTATAAAACCGTGGAGTTTA
AGTTGTCTACGACCTGCACCTCCACTTAGACCATCAGCAGCACTAGGTTATAAAGAGAGGATGTCTTATATCTTA
AAGGAGTCTAGTAAAAGCCCTAAAACGATGAAGAAATTTCTTCATAAAAGGAAGACTGAGAGAAAACCATCGGAG
GAGGAATATGTGATTAGGAAAAGTACAGCTGCTCTGGAAGAGGATGCTCAAATCCTTAAAGTGATCGAAGCCTAC
TGCACCAGCGCAAATTTTCAACAAGGCCATGGCTCAAGTACTCGAAAAGATTCCATTCCACAAGTCTACTCCCT
GAGGAAGAGAAAACCTCATCATTGAAGAAAACGAAAGCAACGGCCAGACCATCATGGAAGAAAAGAGCCTTGTTGAT
ACTGTTTACGCCTTGAAGGACGAGGTGAGAGAACTGAAGCAGGAAAATAAAAGAATGAAGCAATGCCTGGAAGAA
GAACTGAAATCAAGAAGGGACCTAGAAAAGCTGGTGCAGGAGGCTTTTGAAGCAAACAGATGAGTGTATTCGAGGC
GAGTCCAGTAGCAAGACCTCAATTCTTCCATTAACCATCACTGTGCCACTGGGTGGAGTGTGCCTTCAGGGCATCT
TGAAATGTCCCGCTGAATGATTTGACTCAGTTTGCTCACTTCTTTGGCTTTTGTGTTTGTGTTTGTGTTTGTGTTT
CTCTCTCCCTCTCTCTTCTCTTCTCTCTCCCGCTGTGTGCATATGTGTGTGCGTGCAGTGCAGCTTGGGCATT
TGCTGTTGTTTGGTTATTGGTTGGTTGTTTCAATTTTTTTTTTCAACAGGTGAAAAGCAGGAAGTGGTGGTAGAGA
TGGCCTCAGAGTCTTTTCCATTAGTAAGAAAAGAGAAAAGGAATGCAGGCCAGTTACTTAAAGGCTCTCAGATT
GCCTTCAGTTCACAGTGCCTCTGCAACAGCCATTGCCCTCAGGTCACATTCTTTGGGCTGGCTGCCCTTGCAAAG
CAGCTGGCCAAGGCTTATTAATGTGAACCCAACTTTTCCAGGGCTTTTCTGTACCTGCAAGCCTCTTAGTAC
TTAATTTACCGAAGGCAAATCTTCAGACTATGGCTTGAGTAGGATGAAAGACAAACACATCTGCCCAATGATCC
AGCTGCCCTTCTTAGACCATCAGATGCCTCCCCTCAATCAGAGGTTTTAAATTAAGTGCCTATGTTGTCTATA
AGACCAAGAAAACCTGTAGTACCTTTATTCCTTTTGTGTGATGTAAATTGTAAGTCAAGGGGGCAGAAGCTCTGGT
CACCCACACCAACACCAAATCCATCAGCAAATTCCTACTGGACAATCCTCCCTTTTAGTAGCAGAGTTGACCGCCT
TTTCCCATTGCATGATAGGTTTCTTTCCCTCATTCTGCCTAGTGTGTAAGTTTTCTATTTCCCAGTACTTTTAG
CCAACCTTACCAAGTGGTGTGTAACCTAGTATGTATGTGCTTTGCTTACTTTTTAAAAAATGTAGTTAGACTGT
GAGGAGTTACTTTATGTACGTTGCATATTCAAACCTGTGATGTTTTATCCTTCAAACAATCTGCATTAAAGAAGT
ATTGTGCCCTACTAGACAGCTTTCAATCAGCTTTTATTACTCTCTCATATATGCTGTGAGAAGTTGTAATATTAATT
GGCTCTTTGGGTGGGACTCTAAGCAGTATTTGCAGAAATATGCTTCTGGTCCAACCTTGACATCCAGAACAAA
GGGCCCTCTAGTAGCTGTGTGCTGGATTATTCAGGACTGATTAAGTCAAGTTGCTCATTGAATCACATCATCC

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FIGURE 6295B

CTTTATCCCAGAACTAGAACTGTGAGAAACCAGGTTTGAAGACAGTCACAGAACAGCACACATCCAAATTCAG
CGCCATTGAAAGTTGGCCTAAGGCTCAGTGCCACTCACCCCTCCCTCCCCAAAAGACAAGAGAAATTTGGCCAGA
TGGGGAAGGTCACCTGGAAATTGAGGCCAAAGGGCTGATCAGAATTGCCTTTATAATATATTTGATGGATGCCTAT
AAATGTGGGTTTTGCAAATATTGTTTAAAAACCAAACCTTGAAGCCAGGCATGGTGGCCCACACCTGTGGTCCCAG
CTACTCAGGAGGCTGAGGTGGGAGGATCATTTGAGCCCAGGAGGTCAAGGCTGCAGTGAGCTGTGATGACACCAC
TGCACTCCAACCTAGGTAACAGAGAGACACCTCTGTCTCTGAAAAACAAAACCTTGAAGTTTGAAACCCCAGCT
TGCTGAGGAGCCCTTTTTATTGTTTGGTACTGAGAGTCTCAAGGTCCCATAGCTACATGGTACAGGGCTGTTGTCT
GCTTGCTGCACAGCAGAAATTACACCATCCACAGGAAATGGACTATTTTTGCAGTCCAACATCAGCCAACCACAC
ACAGCCGTGTTTGAAGCTGAAGAGTAAAGAAATTTCTAGGAATGGCTGTTGTTCTGTTTTTTAGCACAGCCATT
TAGATATAACATCCTTCACTTAAAAATTAAAAACATCAGTACTACCACCACCACCAACAACATCAACACAGATCT
TCACATCTGCCCATTCTGTGGTTAGTCAATGGCTTGCAATAAATGTGCAAACCTGCATCTATAGGAAACATTTTTG
TGATTACGGAATACTTTAGTTGATTGCTGAAAATATTGAAAGGTCTTCATTTTACAGTGATGAGTACATATGCAT
GTTTCGGGGACTTGGCCCTTCTGATGAGGGGCCCTCGGTACTCTGGATAACGAAGCTTGTGCAGAGTGGTAACCA
TGCTTACACACTAACTATAATATAAAGGAAATGAAGCCATGTTAATCTGAGAGCAGTGTGCCATAGTTGTGTT
GTTTACAATACTCTATAAATGGGTTCCCTGTTGCCCTGTAATTAACTGCTGCCCCTAGAGGCCCTTTCAGTTCCCTT
TTCTGTCTTCCCCTTCTTAACACAAGCTCAAATTTTCTAACTTGTTTTTATTTTGAAGACTTTTAAATGGACA
TTTTCAATACATAAAAATAAACAGTGCTTTATAAAAA

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FIGURE 6296

MNP EEQIVTWLISLGVLES PKKTICDPEEF LKSS LKNGVVLCKLINRLMPGSVEKFCLDPQTEADCINNINDFLK
GCATLQVEIFDPDDLYSGVNF SKVLSTLLAVNKATEDQLSERPCGRSSSLSAANTSQTNPQGAVSSTVSGLQRQS
KTVEMTENGSHQLIVKARFNFKQTNEDELSVCKGDI IYVTRVEEGGWEGTLNGRTGWFP SNYVREIKSSERPLS
PKAVKGFETAPLTKNYYTVVLQNILDTEKEYAKELQSLLVTYLRPLQSNNNLSTVEVTSLLGNFEEVCTFQQTLC
QALEEC SKFPENQHKGCGCLLSLMPHF KSMYLAYCANHP SAVNVLTQHSDELEQFMENQGASSPGILILTNNLSK
PFMRLEKYVTLLQELERHMEDTHPDHQDILKAIVAFKTLMGQCQDLRKRKQLELQILSEPIQAWEGEDIKNLGNV
IFMSQVMVQYGACEEKEERYLMLFSNVLIMLSASPRMSGFIYQGKIP IAGTVVTRLDEIEGNDCTFEITGNTVER
IVVHCNNNQDFQEWLEQLNRLIRGPASCSSLSKTS SSSSCSAHSSFSSTGQPRGPLEPPQIIKPWSLSCLRPA PPL
RPSAALGYKERMSYILKESSKSPKTMKKFLHKKRTERKPSEEEYVIRKSTA ALEEDAQILKVI EAYCTSANFQQG
HGSSTRKDSIPQVLLPEEEKLII EETRSNGQTIMEEKS LVDTVYALKDEVRELKQENKRMKQCLEELKSRRDLE
KLVRRLKQTDECIRGE SSKTSILP

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FIGURE 6297

AAAAAAAAACATGGTTGAAGCAGATCGCCAGGAAAGCTCTTCATTGGTGGGCTTAATACGGAAACAAATGAGAAA
GCTCTTGAAGCAGTATTTGGCAAATATGGACGAATAGTGGAAGTACTCTTGATGAAAGACCGTGAAACCAACAAA
TCAAGAGGATTTGCTTTTGTACCTTTGAAAGCCCAGCAGACGCTAAGGATGCAGCCAGAGACATGAATGGAAAG
TCATTAGATGGAAAAGCCATCAAGGTGGAACAAGCCACCAAAACCATCATTGAAAGTGGTAGACGTGGACCGCCT
CCACCTCCAAGAGTAGAGGCCCTCCAAGAGGTCTTAGAGGTGGAAGAGGAGGAAGTGGAGGAACCAGGGGACCT
CCCTCACGGGGAGGACACATGGATGACGGTGGATATTCCATGAATTTTAACATGAGTTCTTCCAGGGGACCACTC
CCAGTAAAAAGAGGACCACCACCAAGAAGTGGGGGTCTCTCTCTTAAGAGATCTGCACCTTCAGGACCAGTTCGC
AGTAGCAGTGGAATGGGAGGAAGAGCTCCTGTATCACGTGGAAGAGATAGTTATGGAGGTCCACCTCGAAGGGAA
CCGCTGCCCTCTCGTAGAGATGTTTATTTGTCCCAAGAGATGATGGGTATTCTACTAAAGACAGCTATTCAAGC
AGAGATTACCCAAGTTCTCGTGATACTAGAGATTATGCACCACCACCAGAGATTATACTTACCGTGATTATGGT
CATTCCAGTTCACGTGATGACTATCCATCAAGAGGATATAGCGATAGAGATGGATATGGTCGTGATCGTGACTAT
TCAGATCATCCAAGTGGAGGTTCTTACAGAGATTATATGAGAGTTATGGTAACTCACGTAGTGCTCCACCTACA
CGAGGGCCCCCGCCATCTTATGGTGGAAGCAGTCGCTATGATGATTACAGCAGCTCACGTGACGGATATGGTGGA
AGTCGAGACAGTTACTCAAGCAGCCGAAGTGATCTCTACTCAAGTGGTCGTGATCGGGTTGGCAGACAAGAAAGA
GGGCTTCCCCCTTCTATGGAAGGGGGTACCCTCCTCCACGTGATTCTTACAGCAGTTCAAGCCGCGGAGCACCA
AGAGGTGGTGGCCGTGGAGGAAGCCGATCTGATAGAGGGGGAGGCAGAAGCAGATACTAGAAACAAACAAACTT
TGGACCAAAATCCCAGTTCAAAGAAACAAAAGTGGAACTATTCTATCATAACTACCCAAGGACTACTAAAAGG
AAAAATTGTGTTACTTTTTTTTAAATTCCCTGTTAAGTTCCCTCCATAATTTTTATGTTCTTGTGAGGAAAAAAG
TAAACATGTTTAAATTTTATTTGACTTTTCGATTGCTTTTCAACAAGCAAATGTTAAATGTGTTAAGACTTGTAC
TAGTGTTGTAACTTTCCAAGTAAAAGTATCCCCTAAAGGCCACTTCCTATCTGATTTTTCCAGCAAATGAGGCA
GGCAATTCTAAGATCTTCCACAAAACATCTAGCCATCTAAATGGAGAGATGAATCATTCTACCTATACAAACAA
GCTAGCTATTAGAGGGTGGTTGGGGTATGCTACTCATAAGATTTTCAGGGTGTCTTCCAAGTAAATCTCAATGTT
CTCAGTACGAAAAACCTGAAATCACATGCCTATGTAAGGAAAGTGCTATTCACCCAGTAAACCCAAAAAAGCAAA
TGGATAATGCTGGCCATTTTGCCTTTCTGACATTTCTTGGGAATCTGCAAGAACCTCCCCTTTCCCTTCCCCCA
ATAAGACCATTTAAGTGTGTGTTAAACAACCTACAGAATACTAAATAAAAAAGTTTGGCCAAAACC

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FIGURE 6298

MVEADRP GKLF I GGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKS RGF AFVTFESPADAKDAARDMNGKSLD
GKA IKVEQATKPSFESGRRGPPPPPRSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYS MNFNMSSSRGPI LPVK
RGPPPRSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDSYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDY
PSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYS DRDGYGRDRDYSDHPSGGSYRDSYESYGNRSR SAPPTRGF
PPSYGGSSRYDDYSSSRDGYGGS RDSYSSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRG
GRGGS RSDRGGGRSRY

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FIGURE 6299

CTCGTGATTACTCAGTTTGGGAACAGTGACAATAACTTTACAAATACATATACAGATGTATCTTCTGTCCACTCA
GGAAACACAGCAAGGGTCCCATTTAAGTACAAGTCAGAGGTGATTCCAGGGCACTTTGGATTCCCTCGTGCCCCAG
GATCAAGCAGTACTTACCGCTTCCACGGTACTTAGCGTTCTGCCAATAAAAGAAGCCCCAACTCCGGCCCGTCGGC
TGTCGCTGCCAGAGGGAGGAGGGCCATGATCCAAAGGAACCAGAGCAGTTGAGAAAAGTGTATTTGGTGGTCTG
AGCTTTGAAACTACAGAAGATAGTTTAAAGAACATTTTGAGAAATGGGACACACTCACAGATTGTGTGGTAATG
AGAGACCGCCAAACAAAACGTTCCAGGGGCTTAGGTTTTGTGACTTATTCTTGTGTTACAGAGGTAGATGCAGCA
ATGTGTGCTCGACCACACAAGGTTGATGGGCATGTAGTGGAACCAAAAGAGCTGTTTCTAGAGAGGATTCTGTA
AAGCCCGGTGCCCATCTAACAGTGAAGAAAATTTTTGTTGGTGGTATTAAAGAAGATACAGAAGAATATAATTTG
AGAGACTACTTTGAAAAGTATGGCAAGATTGAAACCATAGAAGTTATGGAAGACAGGCAGAGTGAAAAAAGAGA
GGATTTGCTTTTGTAACTTTTGATGGTCACGATACAGTTGATAAAATTGTTGTTTCAGAAATACCACACTATTAAT
AGGCATAATTGTGAAGCAAAAAGGCCGTTTCTAAACAAGAAATGCAGTCTGCTGGATCATAGAGAGGTCTGGAG
GTGGGTCTGGCAATTTTATGGGTTGCGGAGGAAGCTTTGGAGATGGTGGAGCAATCAAATATGGACCCATGAAA
GGGGGCAGTTTTGGTGGAAAGACACTCGGGCAGTCCCTATGGTGGTGGTTATGGATCTGGTGGTGAAGTGGTGA
TATGGTAGCAGAAGGTTCTAA

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FIGURE 6300

TGGGAATCTGACGGATCGGAGGCATTTGTGAGGAGGCGCGAATCAAGTTAGCGGGGGGAAGAGTCTTAGACCTGG
CCAGTCCTCAGGGTGAGGGCCCTGAGGAAGAACTGAGGGACCTCCCACCATAGAGAGAAGAAACCCCGGCCGTGTA
CTGCGCTGCCGTGAGACTGGTGCTCCAGGAACCAGGTGGTGACGAACCTGGGTGTGAGGCACACAGCCTAAAGTCA
GCACAGCAGAGGAGGCCCAGGCAGTGCCAGGAGTCAAGGCCTGTTGGATCTCATCATCCATATCCCTGTTGATAC
GTTTACCTGCTGCTCCTGAAGAAGTCGTCATGCCTCCCGTTCCAGGCGTTCCATTCCGCAACGTTGACAACGACT
CCCCGACCTCAGTTGAGTTAGAAGACTGGGTAGATGCACAGCATCCCACAGATGAGGAAGAGGAGGAAGCCTCCT
CCGCTCTTCCACTTTGTACTTAGTATTTTCCCCCTCTTCTTTCTCCACATCCTCTTCTCTGATTCTTGGTGGTC
CTGAGGAGGAGGAGGTGCCCTCTGGTGTGATACAAATCTTACCGAGAGCATTCCCAGTAGTCCTCCACAGGGTC
CTCCACAGGGTCCTTCCCAGAGTCCTCTGAGCTCCTGCTGCTCCTCTTTTTTCATGGAGCTCATTAGTGAGGAGT
CCAGCAGCCAGAAAGGGGAGGATACAGGCACCTGTGAGGGCCTGCCAGACAGTGAGTCCTCTTTCACATATACAC
TAGATGAAAAGGTGGCCGAGTTAGTGAGTTCTCTGCTCCTCAAATACGAAGCAGAGGAGCCTGTAACAGAGGCGAG
AGATGCTGATGATTGTCATCAAGTACAAAGATTACTTTCCTGTGATACTCAAGAGAGCCCGTGAGTTCATGGAGC
TTCTTTTTGGCCTTGCCCTGATAGAAGTGGGCCCTGACCACTTCTGTGTGTTTGCAAACACAGTAGGCCCTCACCG
ATGAGGGTAGTGATGATGAGGGCATGCCCCGAGAACAGCCTCCTGATTATTATTCTGAGTGTGATCTTCATAAAGG
GCAACTGTGCCTCTGAGGAGGTCACTCTGGGAAGTGCTGAATGCAGTAGGGGTATATGCTGGGAGGGAGCACTTCG
TCTATGGGGAGCCTAGGGAGCTCCTCACTAAAGTTTGGGTGCAGGGACATTACCTGGAGTATCGGGAGGTGCCCC
ACAGTTCCTCCTCCATATTATGAATTCTGTGGGGTCCAAGAGCCCATTACAGAAAGCATCAAGAAGAAAGTACTAG
AGTTTTTAGCCAAGCTGAACAACACTGTTCCCTAGTTCCTTTCCATCCTGGTACAAGGATGCTTTGAAAGATGTGG
AAGAGAGAGTCCAGGCCACAATTGATACCGCAGATGATGCCACTGTGATGGCCAGTGAAAGCCTCAGTGTGATGT
CCAGCAACGTCTCCTTTTCTGAGTGAAGTCTAGGATAGTTTCTTCCCCTTGTGTTTGAACAGGGCAGTTTAGGTT
CTAGGTAGTGAGGGGCCAGGTGGGGCTCGAGGAACGTAGTGTCTTTGCATTTCTGTCCCATATGGGTGATGTAG
AGATTTACCTGTTTTTTCAGTATTTTCTAAATGCTTTTCTTTGAATAGCAGGTAGTTAGCTTCAGAGTGTTAATT
TATGAATATTAGTCGCACATGTATTGCTCTTTATCTGGTTTAAGAGTAACAGTTTGATATTTGTAAAAAATG
GAAATACCTTCTCCCTTATTTTGTGATCTGTAACAGGGTAGTGTGGTATTGTAATAGGCATTTTTTTTTTTTTT
ACAATGTGCAATAACTCAGCAGTTAAATAGTGGAACAAAATTGAAGGGTGGTCAGTAGTTTCATTTCCTTGTCT
GCTTATTCTTTTGTCTTGAAAAATTATATATACCTGGCTTTGCTTAGCTTGTTGAAGAACTAGCAGAAATTAA
TCTTAATAAAAAGAAAAAAAAAAAAAAAAAAGG

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FIGURE 6301

MPPVPGVPFRNVDNDSPITSVELEDWVDAQHPTDEEEEEASSASSTLYLVFSPSSFSTSSSLILGGPEEEVPSGV
IPNLTESIPSSPPQGPPQGPSQSPLSSCCSSFSWSSFSESSSQKGEDTGTCQGLPDSESSFTYTLDEKVAELVE
FLLKYEAEPPVTEAEMLMIVIKYKDYFPVILKRAREFMELLFGLALIEVGPDPHFCVFANTVGLTDEGSDDDEGMP
ENSLIIILSVIFIKNCASEEVIWEVLNAVGVYAGREHFVYGEPRELLTKVWVQGHYLEYREVP HSSPPYEF
WGPRAHSESIKKKVLEFLAKLNNTVPSSFPSWYKDALKDVEERVQATIDTADDATVMASESLVMSSNVSFSE

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FIGURE 6302

TTTTCTTTGCTGTTCTTCATCCTCGTTGTTGCTGTCAATCATGTTCACTGTGGCTTTTACAATACAGCCTGTAAAT
TCCTTATGACATAGTTTCAGTGCATTGGCTTTATTGCCTGCTCCACAGTTCTTTACCTTTACTTGGCTTAGAGAA
ACTGTATCTTTGTTGCTTCATATAACCTTTCCCCAACCCCACTAAGCTGGACATAACTTATTAGTGGTCCTCCCG
TCACCTTTATTTGTAGAAATCTCTCTTTCACATGAGCAGGGGTTCTTTTCATGTGGTTTAGCTGACAGCAGAACTAG
TGATTCTAGACATTTTGCATGGCCCTCATTTCAGTGGCTCACAACATGAGGGAGCATCAGAACTACTTGAGGGGC
TTGTTAAAACCCAGTGCCTTAGAAGTCGGATGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCCCAGG
CAGGCGGATCACTTGAGGTTAGGAGTTCAAGACCAGCCTGGCCAACATGGTGAAACCCCGTCTCTACTAAAAATA
CAAAAGTTAGCCGGGTGTGGTGGTGCATGCCGTGTAATCCCAGCTTCTTGGGAGGCCAAGGCACAAGAATCGCTTG
AACCAGGAGACGGAGGTTTCAGTGAATGAAGATCGTGCCATTGTATTCCAGCCTCGGCAACACAGCAGGACTGTG
ATTTTCTTTGGAGACTCCTAGATTTTCTGTGGTTTGAAGTGAATTTGTTGGATGTTGGCAAGTGCCTCTTATGA
GCTGTTTCTTTATCCTGCATTTGCCCCACAAAGACTTATCTGGAGGTGAGCAAAGTATGTTTGGTAGTGAGGTCA
CAAAGGCAATCAGCCCCTTCTCCCCACTCCCATTGCCATCTTCTCAGTCCTTCTCCCTTTCTTTCCAAGTAGTT
TACCCACCCCTCCTCTTTCCCTCCCTGTCCCTAAAAATAATCCACGTGTCTTCTTAAATCTCTCTTTGATCCTGT
CCTTTGATAACACCGTCAGTGCCTACTACTGGGTCTAGACAGACCTCTGTTGAGCAGTCAGAGTCTTCCCTGACT
CCACAATGCCCTTTCTTTGGCTGACCAGTATGACTACTGGTCCCCACCTTTCCCTTGCCCTATCCCTACCTCCCT
CCTACTAGGTTGTCCCATCCCTCTCTTCACCCATTCATTCATGACCATTTTCACTACCAAGCTCCCCCCTCCC
GAAGGAGGCTGAGGTTTTTGTGACTCTCTAGACTCTATTGTGGGATGGAATGAACATTGCTAAAGAATCTTGTGT
TCGCTTTACTTTAAAAAGGTATTTTTTCTAATTATAAACTGATGTGTCAGTTACGGAAAAATTAGAAATGCA
GCACAAATACATGAATATTTTACCACAAAATTGCCATATAATATCTTGTCTTTTTTGGGGGTGTGAATTTTTTGC
ATTGTTCTGGTCATATTCTTTATCATGTAATTTATGTTCTTTTTTACTAAGTATTATGTGTGGTTATTATAGATT
TTCACAAAGATATATTGCTGGTAATATATTTTATTGTGTAGTCTTATTAATTTACTTAACTTCTTTCAATTGTTA
GAAATTTAGGCTATTTCCAGATTTTTCAGTATTGTAAATAATGCTGTGATGACCAATTTTGTGAATAAAATGTTTT
TATGTATTTTCAGATTATTTCCCTTAGGATAGTCTCTCAGTGCCAAGTTGTCAAAAACATCTCTATTTTGCCTTATCT
TCCTGCTCTCTTGCTGCCTTAGGGGGTAGTAAACTGAAACATAAAGTAAACATGCATACAAATAAAAAACATAAA
ACAAAAATAAGCAACCTGATGGTAATAGGTGAAAGTGGTAACCTGTTTTAACTTTGAATCTTTGCCGGGCGCGGT
GCTCACGCCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAGGTCAGGAGTTCAAGACCAGCCT
GGCCAAGATGGTGAAATCCCGTCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGGTGGGCGCCTGTAATCC
CAGCTACTTGGGAGGCTGAGGCAGAGAATTGCTTGAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCGTGCC
ACTGCATCCAGCCTGGGTGACAGAGCGAGACTCCGTCTCAATAAAAAACAACAAAAAAACAAAAAACTTAA
ATTCTTTGCTTGTAGTGACCTTGATCATGGTTCTCTTTGTACGATAGTTGGGCATCTGTATTTCCACTTGTGTG
AATTTGCCTTTAAATTTTGGTTATGGGTTTACCTTTTAAATAATCAAACATATTATCTTTTCTGTGTGATA
GGTTTTTTTCTGTATCTTTTCTGTAAACACACAGACCCCTCCCAATCTGGACATTGAATAAATATTCAATTT
CCTTGC

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FIGURE 6303

MNIAKESCVRFTLKRYFFPNYKTDVSVTEKLEMQHKYMNILPQNCHIIISCLFWGCEFFALFWSYSLSCNLCSFLL
SIMCGYYRFSQRYIAGNIFYCVVL

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FIGURE 6304

GGGAGCTGTATGAAAGCGGAAGAGTTATAGACCGCTAACACCTGTCACTGGCCACTGGTTTCCCGGAGTTAGCGG
CAACGACCTTGCAGCCTGGACACTAGCCAGGCGCTCCCTCTTCTCACAGCGGCCACGTCTCCTTGCTTGGGAGC
CCATCGTCCCTGGCTCCGGTGGCCTCGCTGGGTCTCGGGGAAGCAGAGGACTGTTCAATTCCTGTGGCGAAAAGCCG
GAGTCGGCCCTAGACACCCACGACTCGCAGGGTCCATGGTTCCGGAGGCCGTGAGACCTGCCGGGGCTGACAGGT
GCCAGGGCCCATGCTGCGGGAGCCTGTGTGCTCAGCCTTCTTGCGGACGGTAAAGAAGCTAAGTGGAAGAGTGTT
TCCTCCTCTGGCCGTAAAGCAGGTACTCTCTGCAGCACCAGCTGTCCCCGCCCTACTCCGGACCGCCCCAAAGAC
TCCATGGGATGGACCTGAGTCAGCCGAATCCCAGCCCCCTCCCTTGGGCCTGCTGTGGTGCTGGACATCAGTGAC
AGACGGAAGCAGGAGACCATCAAGGCTACGGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCT
TCCGGCAGCCTTATGCTGGCTTTGTCTTAAATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCCCTGCTGAGCA
GCCAGCGGAAGTGTACCATCGCCGTCCACATTGCTCACAGGGACTGGGAAGGCGATGCCTGGCGGGAGCTGCTGG
TGGAGAGACTCGGGATGACTCCTGCTCAGATTGAGGCCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGA
TAGCGGGACTCGTTGACATTGGGGAAACTTTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAG
AAAATCAAGCTGTACTGACCAACCTGAAGCAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGC
CCATACCTAGGAAAGGAGGCAAGGATGTATTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAG
TGTGACAAGTGTGGGCTCCTGAAAGGAATGTTCCAGAGAAACCAGCTAAATCATGACACCTTCAATTTGCCATCA
TGACGCAGACCTGTATACATTAGGTTAAATCTGAATTTCCACTGCTTTGGAGAGTCCCACCCACTAAGCACTGTG
CATGTAAACAGGTTCCCTTGTCTCAGATGAAGGAAGTAGGGGGTGGGGCTTTCCTTGTGTGATGCCTCCTTAGGCA
CACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGCAAAGCTGCCAGTAAATGTCTCAGCATTGCTGCT
AATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTGTTGTAGATGACTGGTTAGTGTGTTGAGGCTTTGT
TCTATGTTTTCCCTGATTTGTTCTGGTCAAACTCATCAATGTGTAAGTATGATCCAGGCGACAATACAGAAA
GTCTGGGACCTGGCACTGAATGTTTGCCTGGTAGTGACTAGCCGTTAATCAACCGACTCATCCAGGATGAAGAGG
ACGTCAGACTTAGAGCAGCTGTCTGCTTTCAGGTTACTCTCACTCTTCTGAAAGTGCTGTGTCAGTTTCTGAAG
CATGTGTGTTACCTGCATCACACAGCTACTTCCTATCCTAGCAATACATCCAAAATACAGCTCTAGTAGAGTGAG
GTTAACTTGGAATGTGATCAGTAGTGTGTTTTATTTTGTAGTAATTTTTTTTTTTTTTTTGGTGATTTAGCAA
GTTTCTAGTTGTTATCCATGAGGATGATGGGCATTTCCCCCAGGTATTGACTGCAGTGG

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FIGURE 6305

MKFGCLSFRQPYAGFVLNGIKTVETRWRELLSSQRNCTIAVHIAHRDWEGDACRELLVERLGMTPAQIQALLRKG
EKFGRGVIAGLVDIGETLQCPEDLTPDEVVELENQAALTNLKQKYLTVISNPRWLLEPIPRKGGKDVQVDIPEH
LIPLGHEV

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FIGURE 6306

GGAGCTGCATGAAAGCCGAAAGTTATGGACCGCTAGCATCTGTCACTGGCCACCGGTTTCCGGGAGTAAGCGGCAG
CTACCTTACAGCCCTGACACGAGCCGGGTGCTCTCTTCTCACC CGGCCACGTCTCCTCGCTGGCTCCGGTG
GCCTCGCTGGGTCGCGAGGAGGCGGAGGACTGTACTCTGAGGCCAAAAGCCAGAGTCGGCCCTGAACGCCCACGA
CTCTCAGGGTCCAGAGGCCGTGAGACCGGCCGCGGCTGAAAGGTACCAGGGCCCCTGATGCCGGAGCCCGTGTGC
TCGGCCCTCTTGCAGACGGTAAAGAAAACCAAGTGGAAGAGTGTTTCCTCCTCTGGCCGTAAAGCAGCTGTCCCCG
CCCTACTCCGGACCGCCCCAAAGACTCCATGGGATGGACCTGAGTCAGACGGAAGCAGCAGACCATCAAGGCTAC
GGGAGGCCCGGGGCGCTTGCGAAGATGAAGTTTGGCTGCCTCTCCTTCCGGCAGCCTTATGCTGGCTTTGTCTTA
AATGGAATCAAGACTGTGGAGACGCGCTGGCGTCCTCTGTCTGAGCAGCCAGCGGAACTGTACCATCGCCGTCCAC
ATTGCTCACAGGGACTGGGAAGGCGATGCCTGTCGGGAGCTGCTGGTGGAGAGACTCGGGATGACTCCTGCTCAG
ATTCAGGCCTTGCTCAGGAAAGGGGAAAAGTTTGGTCGAGGAGTGATAGCGGGACTCGTTGACATTGGGGAACT
TTGCAATGCCCCGAAGACTTAACTCCCGATGAGGTTGTGGAAGTAGAAAATCAAGCTGCACTGACCAACCTGAAG
CAGAAGTACCTGACTGTGATTTCAAACCCAGGTGGTTACTGGAGCCCATACTAGGAAAGGAGGCAAGGATGTA
TTCCAGGTAGACATCCCAGAGCACCTGATCCCTTTGGGGCATGAAGTGTGACAAGTGTGGGCTCCTGAAAGGAAT
GTTCCAGAGAAACCAGCTAAATCATGGCACCTTCAATTTGCCATCGTGACGCAGACCTGTATAAATTAGGTTAAA
GATGAATTTCTTGTGTGATGCCTCCTTAGGCACACAGGCAATGTCTCAAGTACTTTGACCTTAGGGTAGAAGGC
AAAGCTGCCAGTAAATGTCTCAGCATTGCTGCTAATTTTGGTCCTGCTAGTTTCTGGATTGTACAAATAAATGTG
TTGTAGATG

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FIGURE 6307

MCVTDKTRPPSSSWFMPAKYMTFLGPLTSFAVLHLMTFPLYLPCCAGKEAKWKS VSSSGRKA AV PALLRTAPKT
PWDGPESAESQPLPLGLLWCWTSVTDGSR RPSRLREARGACEDEVWLPLLPAALCWLC LKWNQDCGDALASPAEQ
PAELYHRRPHCSQGLGRRCLAGAAGGETRDDSCSDSGLAQERGKVWSRSDSGTR

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FIGURE 6308

GGCACGAGGGCGGGGATCAGAGAGAAGCGAGGGCCTGGTTCTGAGGGGTCTGGCTTGAGATCGGCTGAGGGAAGCG
GGCTCAGGGTCTGTGAGGAGGCAAGGTTTCGCAGAGAACAGGCCAGCCAGGAGGTGAGGAGGCCCCAGAGAAGCAC
TGAAGAAGACCTGCCTGTGGGTCTCAATTGCCAGCTCCGGCCCCACACTCTCCTGCTGCCCTGACCTGAGTCATC
ATGCTTCTTGGGCAGAAGAGTCAGCGCTACAAGGCTGAGGAAGGCCTTCAGGCCCAAGGAGAGGCACCAGGGCTT
ATGGATGTGCAGATTCCACAGCTGAGGAGCAGAAGGCTGCATCCTCCTCTACTCTGATCATGGGAACCCTT
GAGGAGGTGACTGATTCTGGGTACCAAGTCTCCCCAGAGTCTGAGGGTGCCTCCTCTTCCCTGACTGTCACC
GACAGCACTCTGTGGAGCCAATCCGATGAGGGTTCAGCAGCAATGAAGAGGAGGGGCCAAGCACCTCCCCGGAC
CCAGCTCACCTGGAGTCCCTGTTCCGGGAAGCACTTGATGAGAAAGTGGCTGAGTTAGTTTCGTTTCTGCTCCGC
AAATATCAAATTAAGGAGCCGGTCACAAAGGCAGAAATGCTTGAGAGTGTGATCAAAAATTACAAGAACCCTTT
CCTGATATCTTCAGCAAAGCCTCTGAGTGCATGCAGGTGATCTTTGGCATTGATGTGAAGGAAGTGGACCCTGCC
GGCCACTCCTACATCCTTGTCACCTGCCTGGGCCCTCCTATGATGGCCTGCTGGGTGATGATCAGAGTACGCCC
AAGACCGGCCTCCTGATAATCGTCTCGGCATGATCTTAATGGAGGGCAGCCGCGCCCCGGAGGAGGCAATCTGG
GAAGCGTTGAGTGTGATGGGGCTGTATGATGGGAGGGAGCACAGTGTCTATTGGAAGCTCAGGAAGCTGCTCACC
CAAGAGTGGGTGCAGGAGAACTACCTGGAGTACCGCCAGGCGCCCGGCAGTGATCCTGTGCGCTACGAGTTCCTG
TGGGGTCCAAGGGCCCTTGCTGAAACCAGCTATGTGAAAGTCTGGAGCATGTGGTCAGGGTCAATGCAAGAGTT
CGCATTTCCTACCCATCCCTGCATGAAGAGGCTTTGGGAGAGGAGAAAGGAGTTTGAGCAGGAGTTGCAGCTAGG
GCCAGTGGGGCAGGTTGTGGGAGGGCCTGGGCCAGTGCACGTTCCAGGGCCACATCCACCACTTTCCCTGCTCTG
TTACATGAGGCCCATTCTTCACTCTGTGTTTGAAGAGAGCAGTCACAGTTCTCAGTAGTGGGGAGCATGTTGGGT
GTGAGGGAACACAGTGTGGACCATCTCTCAGTTCCTGTTCTATTGGGCGATTGGAGGTTTATCTTTGTTTCCTT
TTGGAATTGTTCCAATGTTCTTCTAATGGATGGTGTAAATGAACCTCAACATTCATTTATGTATGACAGTAGAC
AGACTTACTGCTTTTTATATAGTTTAGGAGTAAGAGTCTTGCTTTTCATTTATACTGGGAAACCCATGTTATTT
TTGAATTCAGACACTACAAGAGCAGAGGATTAAGGTTTTTTAGAAATGTGAAACAACATAGCAGTAAAATACAT
GAGATAAAGACATAAAGAAATTAACAATAGTTAATTCTTGCCTTACCTGTACCTCTTAGTGTACCCTATGTACC
TGAATTTGCTTGGCTTCTTTGAGAATGAAATTGAATTAATATGAATAAATAAGTCCCCCTGAAAAAAAAAAAAA
AA

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FIGURE 6309

MLLGQKSQRYKAEGLQAQGEAPGLMDVQIPTAEQKAASSSSTLIMGTLEEVTDSGSPSPPOSPEGASSSLTVT
DSTLWSQSDEGSSSNEEEGPSTSPDPAHLESIFREALDEKVAELVRFLLRKYQIKEPVTKAEMLESVIKNYKNHF
PDIFSKASECMQVIFGIDVKEVDPAGHSYILVTCLGLSYDGLLGDDQSTPKTGLLIIVLGMILMEGSRAPEEAIW
EALSVMGLYDGREHSVYWKLRKLLTQEWVQENYLEYRQAPGSDPVRYEFLWGPRALAETSYVKVLEHVVRVNARV
RISYPSLHEEALGEEKGV

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FIGURE 6310

AGTTTCCAGGATGGCTTCTGCATCAACTTCTTAAAAATAATTCACACTCCTTGGAGAATGAGTCTATTAAGAGGAC
GTCTCGAGATGGAGTCAATCGAGATCTCACTGAGGCTGTTCTCGACTTCCAGGAGAAACACTAATCACTGACAA
AGAAGTTATTTACATATGTCCTTTCAATGGCCCCATTAAGGGAAGAGTTTACATCACAAATTATCGTCTTTATTT
AAGAAGTTTGGAAACGGATTCTTCTCTAATACTTGATGTTCTCTGGGTGTGATCTCGAGAATTGAAAAATGGG
AGGCGCGACAAGTAGAGGAGAAAATTCCTATGGTCTAAATATTACTTGTAAGACATGAGAAACCTGAGGTTCGC
TTTGAAACAGGAAGGCCACAGCAGAAGAGATATGTTTGAGATCCTCACGAGATACGCGTTTCCCCTGGCTCACAG
TCTGCCATTATTTGCATTTTTAAATGAAGAAAAGTTAACGTGGATGGATGGACAGTTTACAATCCAGTGGAAGA
ATACAGGAGGCAGGGCTTGCCCAATCACCATTGGAGAATAACTTTTATTAATAAGTGCTATGAGCTCTGTGACAC
TTACCCCTGCTCTTTTGGTGATTCCGTATCGTGCCTCAGATGATGACCTCAGGAAGTTGCAACTTTTAGGTCCCGA
AATCGAATTCAGTGCTGTCTATGGATTTCATCCAGAAAATAAGACGGTCATTGTGCGTTGCAGTCAGCCTCTTGTC
GGTATGAGTGGGAAACGAAATAAAGATGATGAGAAATATCTCGATGTTATCAGGGAGACTAATAAACAAATTTCT
AAACTCACCATTATGATGCAAGACCCAGCGTAAATGCAGTGGCCAACAAGGCAACAGGAGGAGGATATGAAAGT
GATGATGCATATCATAACGCCGAACCTTTCTTCTTAGACATTATAATATTCATGTTATGCGGGAATCTTTAAAA
AAAGTGAAGGACATTGTTTATCCTAATGTAGAAGATCTCATTGGTTGTCCAGTTTGGAGTCTACTCATTGGTTA
GAACATATCAAGCTCGTTTTGACAGGAGCCATTCAAGTAGCAGACAAAGTTTCTTCAGGGAAGAGTTTCAGTGCTT
GTGCATTGCAGTGACGGATGGGACAGGACTGCTCAGCTGACATCCTTGCCATGCTGATGTTGGATAGCTTCTAT
AGGAGCATTGAAGGGTTTCAAATACTGGTACAAAAAGAAATGGATAAGTTTGGACATAAATTTGCATCTCGAATA
GGTCATGGTGATAAAAAACCACCCGATGCTGACCGTTCTCCTATTTTCTCCAGTTTATTGATTGTGTGTGGCAA
ATGTCAAAACAGTTCCCTACAGCTTTTGAATTCAATGAACAAATTTTGATTATAATTTGGATCATCTGTATAGT
TGCCGATTTGGTACTTTCTTATTCAACTGTGAATCTGCTCGAGAAAGACAGAAGGTTACAGAAAGGACTGTTTCT
TTATGGTCACTGATAAACAGTAATAAAGAAAAATTCAAAAACCCCTTCTATACTAAAGAAATCAATCGAGTTTAA
TATCCAGTTGCCAGTATGCGTCACTTGGAACTCTGGGTGAATTACTACATTAGATGGAACCCCAAGGATCAAGCAA
CAACAGCCGAATCCAGTGGAGCAGCGTTACATGGAGCTCTTAGCCTTACGCGACGAATACATAAAGCGGCTTGAG
GAACTGCAGCTCGCCAACTCTGCCAAGCTTCTGATCCCCAACTTCACCTTCCAGTCCTTCGCAAATGATGCC
CATGTGCAAACTCACTTCTGAGGGGGGACCCTGGCACCAGCTTAGAGCTCGAAATAAAGCGGATAGCTGACTTTC
ATTTGGGGCATTGTGAAAAAGTAGATTAATAATTTTGCCTCCATGTAGAATCTGAACATAACATAATCTTAAACTC
TTGAATATGTGCCTTCTAGAAATACATATAAAGAAACTACAGGGTCCACACGGCAATCAGAAAGAAAGGAGCTG
AGATGAGGTTTTGGAAAACCTGACACCTTTAAAAAGCAGTTTTTGAAGACAAAATTTAGATTTAATTTACGTC
TTGAGAAATCATATATACAAATATATATTTTGTGGGCTTAATTGAAACAACATTATTTTAAAAATCAAAGGGGAT
ATATGTTTGTGGAATGGATTTTCTGAAGCTGCTTAACAGTTGCTTTGGATTCTCTAAGATGAATCCAAATGTGA
AAGATGCATGTTACTGCCAAAACCAAATTGAGCTCAGCTTCTTAGGCATTACCCAAAAGCAAGGTGTTTAAGTAA
TTGCCAGCTTTTATACCATCATGAGTGGTGACTTAAGGAGAAATAGCTGTATAGATGAGTTTTTCATTATTTGGA
AATTTAGGGGTAGAAAATGTTTTCCCTAATTTTCCAGAGAAGCCTATTTTTATATTTTAAAAAACTGACAGGG
CCCAGTTAAATATGATTTCATTTTTTAAATTTGCCAGTTTTATTTTCTAAATCTTTTCATGAGCTTGCTTAAAA
TTCCGAATGGTTTTTCGGTTGTGGCAAACCCCAAAGAGAGCACTGTCCAAGGATGTCGGGAGCATCCTGCTGCTT
AGGGGAATGTTTTCGCAAATGTTGCTCTAGTCAGTCCAGCTCATCTGCCAAATGTAGGGCTACCGTCTTGATG
CATGAGCTATTGCTAGAGCATCATCCTTAGAAATCAGTGCCCCAGATGTACATGTGTTGAGCGTATTCTTGAAAG
TATTGTGTTTATGCATTTCAATTTCAATGGTGTGGCTTCCCTCCCCACCCACGCGTGCATAAAAACTGGTTC
TACAAATTTTTACTTGAAGTACCAGGCCGTTTGTCTTTTTCAGGTTGTTTTGTTTTATAGTATTAAGTGAAATTT
AAATGCACAGTTCTATTTGCTATCTGAACATAATTCATTTATTAAGTATATTTGTAAAAGCTAAGGCTCGAGTTAA
AACAAATGAAGTGTTTTACAATGATTTGTAAAGGACTATTTATACTAATATGGTTTTGTTTTCAATGAATTAAGA
AAGATTAAATATATCTTTGTAAATATTTTATGTATAGTTTAAATGGTCTACCAAGTAAGACATCTCAAATACA
GTAGTATAATGTATGAATTTTGTAAAGTATAAGAAATTTTATTAGACATTCTCTTACTTTTTGTAAATGCTGTAA
TATTTCAATAAATAACAAAGTGCTACTCCATAAAAAAGAAAGCTAATACTAATAGCCTAAAAGATTTGTGAAAT
TCATGAAAACCTTTTAAATGGCAATAATGACTAAAGACCTGCTGTAATAAATGTATTAAGTAAACCT

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FIGURE 6311

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGGCGGAGGGAAGCCGGCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCACACTCCCGCCTGTTGCCCTGACCAGAGTCATCATGCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCTTGAGGCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCTGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCAAGTTGGTTCATTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCTGTCGGAATTTGGCAGTACTTCTTTCCTGTGATCTTCAGCAAAGCTTCCG
ATTCCTTTCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACGTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGACAGGCTTCTGATAATCATCC
TGGCCATAATCGCAAAAGAGGGCGACTGTGCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTCGGGGATCCCAAGAAGCTGCTCACCAATATTTCTGTCAGGAAAACCTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGCTATGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCGCATTCCTACCCACTCCTGCATG
AGTGGGCTTTGAGAGAGGGGGAAGAGTGAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTTTGGGC
CAGTGACCTTCCGGGGCCCCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCCATCTTCACTCTTTGA
AGCGAGCAGTCAGCATTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATCTTTGTTTCTGTT
GGAGTTGTTCAAAATGTTCTTTTAAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTAGGAGTAAGAGTCTTGTTTTTTATTCAGATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGAAAAAGTATTTGCTTAAATTTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAACAAATAT
GCAAACCAGGATTTCTTGAAGTGAAGCGAAATTAATCTGAATAAATAATCTTCTCTCTTC

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FIGURE 6312

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSTLVEVTLGEVPAAESPDPFQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAKLVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASDSLQLVFGIELMEVDPIGHVYIFATCLGLSYDGLLDNQIMPKTGFLIIILAIIAKEGDCAPEEKIWEEL
SVLEVFEGREDSIFGDPKKLLTQYFVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHMHMVKISGGPRIS
YPLLHEWALREGE

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FIGURE 6313

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCAGCTCCTGCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCACCTGGAGTCCGAGTTCAGAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCACAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGCAGCTGGTCTTTGGCATCG
AGGTGGTGGAAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTATGCCCCAAGACAGGCCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGCCAGTGACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTGGAATTGTTCAAATGTTTCCTTTTAACA
AATGGTTGGATGAACCTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTCAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAAATACATGATACAAGGAACCAAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6314

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQQTASSSSTLVEVTLGEVPAADSPSPPHSPQGASSFSTTI
NYTLWRQSDEGSSNQEEEGPRMFPDLESEFQAAISRKMVELVHFLLLKYRAREPVTKAEMLESVLRNCQDFFPVI
FSKASEYLQLVFGIEVVEVVPISHLYILVTCIGLSYDGLLDGNQVMPKTGLLIIVLAIIAIEGDCAPEEKIWEEL
SMLEVFEGREDSVFAHPRKLLMQDLVQENYLEYRQVPGSDPACYEFLWGPRALIETSYVKVLHHTLTKIGGEPHIS
YPPLHERALREGEE

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FIGURE 6315

CGGCCTGACGTCGGCGGAGGGAAGCAGGCGCAGGCTCCGTGAGGAGGCAAGGTTCTGAGGGGGACAGGCTGACAA
GTAGGACCCGAGGCACTGGAGGAGCATTGAAGGAGAAGATCTGCCTGTGGGTCTTCATTGCCCAGCTCCTGCCCCG
CACTCCTGCCTGCTGCCCTGACCAGAGTCATCATGCCTCTTGAGCAGAGGAGTCAGCACTGCAAGCCTGAAGAAG
GCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCCTGGTGGGTGCGCAGGCTCCTGCTACTGAGGAGCAGCAGACCGCTT
CTTCCTCTTCTACTCTAGTGGAAGTTACCTGGGGGAGGTGCCTGCTGCCGACTCACCGAGTCCTCCCCACAGTC
CTCAGGGAGCCTCCAGCTTCTCGACTACCATCAACTACACTCTTTGGAGACAATCCGATGAGGGCTCCAGCAACC
AAGAAGAGGAGGGGCCAAGAATGTTTCCCGACCTGGAGTCCGAGTTCCAAGCAGCAATCAGTAGGAAGATGGTTG
AGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCAAAAGGCAGAAATGCTGGAGAGTGTCC
TCAGAAATTGCCAGGACTTCTTTCCCGTGATCTTCAGCAAAGCCTCCGAGTACTTGACAGCTGGTCTTTGGCATCG
AGGTGGTGGAAGTGGTCCCCATCAGCCACTTGTACATCCTTGTCACCTGCCTGGGCCTCTCCTACGATGGCCTGC
TGGGCGACAATCAGGTATGCCCAAGACAGGCCCTCCTGATAATCGTCCTGGCCATAATCGCAATAGAGGGCGACT
GTGCCCCCTGAGGAGAAAATCTGGGAGGAGCTGAGTATGTTGGAGGTGTTTGAGGGGAGGGAGGACAGTGTCTTCG
CACATCCCAGGAAGCTGCTCATGCAAGATCTGGTGCAGGAAAACCTACCTGGAGTACCGGCAGGTGCCCGGCAGTG
ATCCTGCATGCTACGAGTTCCTGTGGGGTCCAAGGGCCCTCATTGAAACCAGCTATGTGAAAGTCTGCACCATA
CACTAAAGATCGGTGGAGAACCTCACATTTCTACCCACCCCTGCATGAACGGGCTTTGAGAGAGGGAGAAGAGT
GAGTCTCAGCACATGTTGCAGCCAGGGCCAGTGGGAGGGGTCTGGGCCAGTGCACCTTCCAGGGCCCCATCCAT
TAGCTTCCACTGCCTCGTGTGATATGAGGCCCATTCCTGCCTCTTTGAAGAGAGCAGTCAGCATTCTTAGCAGTG
AGTTTCTGTTCTGTTGGATGACTTTGAGATTTATCTTTGTTTCTGTGGAATTGTTCAAATGTTCTTTTAACA
AATGGTTGGATGAACCTTCAGCATCCAAGTTTATGAATGACAGTAGTCACACATAGTGCTGTTTATATAGTTTAGG
GGTAAGAGTCCTGTTTTTTTATTAGATTGGGAAATCCATTCCATTTTGTGAGTTGTCACATAATAACAGCAGTGG
AATATGTATTTGCCTATATTGTGAACGAATTAGCAGTAAAATACATGATACAAGGAACCTCAAAGATAGTTAATT
CTTGCCTTATACCTCAGTCTATTATGTAAAATTAAAAATATGTGTATGTTTTTGCTTCTTTGAGAATGCAAAAGA
AATTAAATCTGAATAAATAA

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FIGURE 6316

GAGATTCTCGCCCTGAGCAACGAGCGACGGCCTGACGTGCGCGGAGGGAAGCCGGCCCAGGCTCGGTGAGGAGGC
AAGGTTCTGAGGGGACAGGCTGACCTGGAGGACCAGAGGCCCCCGGAGGAGCACTGAAGGAGAAGATCTGCCAGT
GGGTCTCCATTGCCAGCTCCTGCCCCACACTCCCCGCTGTTGCCCTGACCAGAGTCATCATGCTCTTGAGCAGA
GGAGTCAGCACTGCAAGCCTGAAGAAGGCCCTTGAGGCCCCGAGGAGAGGCCCTGGGCCTGGTGGGTGCGCAGGCTC
CTGCTACTGAGGAGCAGGAGGCTGCCTCCTCCTCTTCTACTCTAGTTGAAGTCACCCCTGGGGGAGGTGCCTGCTG
CCGAGTCACCAGATCCTCCCCAGAGTCTCAGGGAGCCTCCAGCCTCCCCACTACCATGAACCTACCCTCTCTGGA
GCCAATCCTATGAGGACTCCAGCAACCAAGAAGAGGAGGGGCCAAGCACCTTCCCTGACCTGGAGTCCGAGTTCC
AAGCAGCACTCAGTAGGAAGGTGGCCGAGTTGGTTTCATTTTCTGCTCCTCAAGTATCGAGCCAGGGAGCCGGTCA
CAAAGGCAGAAATGCTGGGGAGTGTCGTCGGAAATTTGGCAGTATTTCTTTCTGTGATCTTCAGCAAAGCTTCCA
GTTCTTGCAGCTGGTCTTTGGCATCGAGCTGATGGAAGTGGACCCCATCGGCCACTTGTACATCTTTGCCACCT
GCCTGGGCCTCTCCTACGATGGCCTGCTGGGTGACAATCAGATCATGCCCAAGGCAGGCCTCCTGATAATCGTCC
TGGCCATAATCGCAAGAGAGGGCGACTGTGCCCTGAGGAGAAAACTCTGGGAGGAGCTGAGTGTGTTAGAGGTGT
TTGAGGGGAGGGAAGACAGTATCTTGGGGGATCCCAAGAAGCTGCTCACCAACATTTCTGTCAGGAAAACTACC
TGGAGTACCGGCAGGTCCCCGGCAGTGATCCTGCATGTTATGAATTCCTGTGGGGTCCAAGGGCCCTCGTTGAAA
CCAGCTATGTGAAAGTCCTGCACCATATGGTAAAGATCAGTGGAGGACCTCACATTTCTTACCCACCCCTGCATG
AGTGGGTTTTGAGAGAGGGGGGAAGAGTGAAGTCTGAGCACGAGTTGCAGCCAGGGCCAGTGGGAGGGGGTCTGGGC
CAGTGCACCTTCCGGGGCCGCATCCCTTAGTTTCCACTGCCTCCTGTGACGTGAGGCCATTCTTCACTCTTTGA
AGCGAGCAGTCAGCATTTCTTAGTAGTGGGTTTCTGTTCTGTTGGATGACTTTGAGATTATTCTTTGTTTCTGTT
GGAGTTGTTCAAATGTTCTTTTAACGGATGGTTGAATGAGCGTCAGCATCCAGGTTTATGAATGACAGTAGTCA
CACATAGTGCTGTTTATATAGTTTtaggagTAAGAGTCTTGTTTTTACTCAAATTGGGAAATCCATTCCATTTTG
TGAATTGTGACATAATAATAGCAGTGGTAAAAGTATTGCTTAAAATTGTGAGCGAATTAGCAATAACATACATG
AGATAACTCAAGAAATCAAAGATAGTTGATTCTTGCTTGTACCTCAATCTATTCTGTAAAATTAAACAAATAT
GCAAAACCAGGATTTCTTGACTTCTTTGAGAATGCAAGCGAAATTAAATCTGAATAAATAATTCTTCTCTCCAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6317

MPLEQRSQHCKPEEGLEARGEALGLVGAQAPATEEQEAASSSSTLVEVTILGEVPAAESPDPPQSPQGASSLPTTM
NYPLWSQSYEDSSNQEEGPSTFPDLESEFQAALSRKVAELVHFLLLKYRAREPVTKAEMLGSVVGNWQYFFPVI
FSKASSSLQLVFGIELMEVDPIGHLYIFATCLGLSYDGLLDNQIMPKAGLLIIVLAIAREGDCAPEEKIWEEL
SVLEVFEGREDSILGDPKKLLTQHFVQENYLEYRQVPGSDPACYEFLWGPRLVETSYVKVLHMHMVKISGGPHIS
YPPLHEWVLREGEE

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FIGURE 6318

GAGCAGCGCGGCTGACGGGACCAAGGCGGCGGGAGTCTGCGGTCGTTCCCTCGGCTGTGGACGGGCGGCACGC
ACGCGGTGCAGGGTAACATGGCGGATGCGGAAGTAATTATTTTGCCAAAGAAACATAAGAAGAAAAGGAGCGGA
AGTCATTGCCAGAAGAAGATGTAGCCGAAATACAACACGCTGAAGAATTTCTTATCAAACCTGAATCCAAAGTTG
CTAAGTTGGACACGCTCTCAGTGGCCCCCTTTTGCTAAAGAATTTTGATAAGCTGAATGTAAGGACAACACACTATA
CACCTCTTGCATGTGGTTCAAATCCTCTGAAGAGAGAGATTGGGGACTATATCAGGACAGGTTTTCATTAATCTTG
ACAAGCCCTCTAACCCTCTTCCCATGAGGTGGTAGCCTGGATTGACGGATACTTCGGGTGGAGAAGACAGGGC
ACAGTGGTACTCTGGATCCCAAGGTGACTGGTTGTTAATCGTGTGCATAGAACGAGCCACTCGCTTGGTGAAGT
CACAACAGAGTGCAGGCAAAGAGTATGTGGGGATTGTCCGGCTGCACAATGCTATTGAAGGGGGGACCCAGCTTT
CTAGGGCCCTAGAACTCTGACAGGTGCCTTATTCCAGCGACCCCCACTTATTGCTGCAGTAAAGAGGCAGCTCC
GAGTGAGGACCATCTACGAGAGCAAAATGATTGAATACGATCCTGAAAAGAGATTAGGAATCTTTTGGGTGAGTT
GTGAGGCTGGCACCTACATTCCGACATTATGTGTGCACCTTGGTTTGTATTGGGAGTTGGTGGTCAGATGCAGG
AGCTTCGGAGGGTTCTTCTGGAGTCATGAGTGAAGAGGACCACATGGTGACAATGCATGATGTGCTTGATGCTC
AGTGGCTGTATGATAACCACAAGGATGAGAGTTACCTGCGGCGAGTTGTTTACCCTTTGGAAAAGCTGTTGACAT
CTCATAAACGGCTGGTTATGAAAGACAGTGCAGTAAATGCCATCTGCTATGGGGCCAAGATTATGCTTCCAGGTG
TTCTTCGATATGAGGACGGCATTGAGGTCAATCAGGAGATTGTGGTTATCACCACCAAAGGAGAAGCAATCTGCA
TGGCTATTGCATTAATGACCACAGCGGTCATCTTACCTGCGACCATGGTATAGTAGCCAAGATCAAGAGAGTGGA
TCATGGAGAGAGACACTTACCCTCGGAAGTGGGGTTTAGGTCCAAAGGCAAGTCAGAAGAAGCTGATGATCAAGC
AGGGCCTTCTGGACAAGCATGGGAAGCCACAGACAGCACACCTGCCACCTGGAAGCAGGAGTATGTTGACTACA
GTGAGTCTGCCAAAAAGAGGTGGTTGCTGAAGTGGTAAAAGCCCCGAGGTAGTTGCCGAAGCAGCAAAAACTG
CGAAGCGGAAGCGAGAGAGTGAGAGTGAAGTGACGAGACTCCTCCAGCAGCTCCTCAGTTGATCAAGAAGGAAA
AGAAGAAGAGTAAGAAGGACAAGAAGGCCAAAGCTGGTCTGGAGAGCGGGGCCGAGCCTGGAGATGGGGACAGTG
ATACCACCAAGAAGAAGAAGAAGAAGAAGCAAAAGAGGTAGAATTGGTTTCTGAGTAGTGAAGGCCACTTG
AAGCTGGAGGAGAACTAAAGCCTTATTGAGAAAACATGTTATAGATCCTTTTGTGCTGAGAGAGTGGAACATA
GGTCTTAGACAGGGTGAAGAGTTCTGGCACATTTTAGCTGCTACTTTGAGACCTCGGTGATGTTACCTGGTGTGG
TCATCCCATCTTGTCTGTTTTAAGGATATGGGTGGTGAAAGATGAAAGAGGCAGAGTTTATCCCAATGACTTCT
CTGTTTGAGTTGGGAAGCCTCACCTTCAGACCCAGTAAGTGTCCGAGCTGTCTGCTAGTGGTTGTCTTAACATC
GTAGTCTAGTTTGCAATTTTTTAAATCCCCTCTGTTTAAAGGTTTGTAAACAAAAACAAAAACTAAGTCTGC
TCAGTGAAATGCTGTAGAACCCTAAATAAGTGGTAGAAGAGTGTCACTGAATTTTGTCTCTGAATTCAGTATAAC
TGAGTTTTGTCCATGCTGGTGTCTGGGTTATAGGCCTGATGGGCCTGGTAGTTTTCCATCTTGTCTGECCTAGA
GGTCAGTCCTTTGCACCTTCCTCAAAGCTTGTGTACAGTGTACCTAAATCCATCTGACTACTTGTTCCTGTGCC
CTCTTGTTTTAGGCCTCGTTTTACTTTTTAAAAATGAAATTGTTTCAATTGCTGGGAGAAGAAATGTTGTAATTTTTAC
TTATTAAAGTCAACTTGTTAAGTTTTTTTATGTATTCCTGTTGGGTTTTCTTGTTGATCTCATGCTAGCAGAGCAA
AAATTGTAAATATTTTGATTAAAAATCTAGGGACCTTTATGTCCTATTTGGAATTCGATATCAA

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FIGURE 6319

MADAEVIILPKKHKKKKERKSLPEEDVAEIQHAEFLIKPESKVAKLDTSQWPLLLKNFDKLNVRTHYTPLACG
SNPLKREIGDYIRTGFINLDKPSNPSSHEVVAWIRRLRVEKTGHSGTLDPKVTGCLIVCIERATRLVKSQOSAG
KEYVGIVRLHNAIEGGTQLSRALETLTGALFORPPLIAAVKRQLRVRTIYESKMIEDPPERLGIFWVSCEAGTY
IRTLCVHLGLLLGVGGQMQLRRVRSGVMSEKDHMVTMHDVLDQAQWLYDNHKDESYLRRVVYPLEKLLTSHKRLV
MKDSAVNAICYGAKIMLPGLRYEDGIEVNQEIIVITTKGEAICMAIALMTTAVISTCDHGIVAKIKRVIMERDT
YPRKWGLGPKASQKKLMIKQGLLDKHGKPTDSTPATWKQEYVDYSESAKKEVVAEVVKAPQVVAEAAKTAKRKRE
SESEDETTPPAAPQLIKKEKKKSKKDKKAKAGLESGAEPGDGSDTTKKKKKKKKAKEVELVSE

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FIGURE 6320

AGGGACAGCCCAGAGGAGGCGTGGCCACGCTGCCGGCGGAAGTGGAGCCCTCCGCGAGCGCGAGGGCCGCCGGG
GCAGGCGGGGAAACCGGACAGTAGGGGCGGGGCGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCCTGCCCGCCGGAATTGGGGATGCAGAGCAGCGGCAGCGGGTATGGCAGGCAGCCGGCGGGGCCGGCTCCAGC
GCAGGTGCCCGAGAGGCAGGGGCTGGCCTGGGATGCGCGCGCACCTGCCCTCGCCCCGCCCGCCCGCACGAGGG
GTGGTGGCCGAGGCCCCGCCCGCACGCCTCGCCTGAGGCGGGTCCGCTCAGCCCAGGCGCCCGCCCCGCCCGC
GCCGATTAAATGGGCCGCGGGGCTCAGCCCCCGAAACGGTCGTACACTTCGGGGCTGCGAGCGCGGAGGGCGA
CGACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCCTGCGG
GAAGAGCTTTTCCAGGGCGATGCCTTCCATCAGTCGGATACACACATATTCATCATCATGGGTGCATCGGGTGAC
CTGGCCAAGAAGAAGATCTACCCACCATCTGGTGGCTGTTCCGGGATGGCCTTCTGCCCGAAAACACCTTCATC
ATGGGCTATGCCGTTCCCGCTCACAGTGGCTGACATCCGAAACAGAGTGAGCCCTTCTTCAAGGCCACCCCA
GAGGAGAAGCTCAAGCTGGAGGACTTCTTTGCCCGCAACTCCTATGTGGCTGGCCAGTACGATGATGCAGCCTCC
TACCAGCGCCTCAACAGCCACATGGATGCCCTCCACCTGGGGTACAGGCCAACC GGCTCTTCTACCTGGCCTTG
CCCCGACCGTCTACGAGGCCGTACCAAGAACATTACAGAGTCCTGCATGAGCCAGATAGGCTGGAACCGCATC
ATCGTGGAGAAGCCCTTCGGGAGGGACCTGCAGAGCTCTGACCGGCTGTCCAACCACATCTCCTCCCTGTTCCGT
GAGGACCAGATCTACCGCATCGACCACTACCTGGGCAAGGAGATGGTGCAGAACCTCATGGTGCTGAGATTGCC
AACAGGATCTTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTATCCTCACCTTCAAGGAGCCCTTTGGC
ACTGAGGGTCGCGGGGGCTATTTCGATGAATTTGGGATCATCCGGGACGTGATGCAGAACCACTACTGCAGATG
CTGTGTCTGGTGGCCATGGAGAAGCCCGCTCCACCAACTCAGATGACGTCCGTGATGAGAAGGTCAAGGTGTTG
AAATGCATCTCAGAGGTGCAGGCCAACAATGTGGTCCTGGGCCAGTACGTGGGAACCCCGATGGAGAGGGCGAG
GCCACCAAGGGTACCTGGACGACCCACGGTGCCCCGCGGGTCCACCACCGCCACTTTTGACCGCGTCGTCTC
TATGTGGAGAATGAGAGGTGGGATGGGGTGCCCTTCATCCTGCGCTGCGGCAAGGCCCTGAACGAGCGCAAGGCC
GAGGTGAGGCTGCAGTTCATGATGTGGCCGGCGACATCTTCCACCAGCAGTGCAAGCGCAACGAGCTGGTGATC
CGCGTGCAGCCCAACGAGGCCGTGTACACCAAGATGATGACCAAGAAGCCGGGCATGTTCTTCAACCCCGAGGAG
TCGGAGCTGGACCTGACCTACGGCAACAGATACAAGAACGTGAAGCTCCCTGACGCCTACGAGCGCCTCATCCTG
GACGTCTTCTGCGGGAGCCAGATGCACTTCGTGCGCAGCGACGAGCTCCGTGAGGCCTGGCGTATTTTACCCCA
CTGCTGCACCAGATTGAGCTGGAGAAGCCCAAGCCCATCCCTATATTTATGGCAGCCGAGGCCCCACGGAGGCA
GACGAGCTGATGAAGAGAGTGGGTTTCCAGTATGAGGGCACCTACAAGTGGGTGAACCCCAACAAGCTCTGAGCC
CTGGGCACCCACCTCCACCCCGCCACGGCCACCCTCCTTCCCGCCGCCCGACCCCGAGTCGGGAGGACTCCGGG
ACCATTGACCTCAGCTGCACATTCTGGCCCCGGGCTCTGGCCACCCTGGCCCGCCCTCGCTGCTGCTACTACC
CGAGCCAGCTACATTCTCAGCTGCCAAGCACTCGAGACCATCCTGGCCCTCCAGACCCTGCCTGAGCCCAGG
AGCTGAGTCACCTCCTCCACTCACTCCAGCCCAACAGAAGGAAGGAGGAGGGCGCCCATTCGTCTGTCCCAGAGC
TTATTGGCCACTGGGTCTCACTCCTGAGTGGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGGCGAGC
ACCCACGTGAGAGAATCTGCCTGTGGCCTTGCCCGCCAGCCTCAGTGCCACTTGACATTCTTGTACCAGCAAC
ATCTCGAGCCCCCTGGATGTCCCCTGTCCCACTCTGCACTCCATGGCCACCCCGTGCCACCCGTAGGCAGC
CTCTCTGCTATAAGAAAAGCAGACGCAGCTGGGACCCCTCCCAACCTCAATGCCCTGCCATTAAATCCGCAA
ACAGCC

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FIGURE 6321

GAGCTCGCGGGCGACTGCCTGCCAGGCAGACGCTGCAGCTAAGCTGCGCGGTGGCTGTGGCAGGTGAGAGCCTCC
GGAAGGGAGGGCGGCCCTCTGGCCCCGACCCTGCTCCGCGATCGCCCACTCGGGCGCCCGGCCGGGCTGGCAGGGA
AGGGCCGCGCCGCGCCGCGCGTTCGCGAGGCCTGGCGGGGGCGCGGGGGCCAGGAATGGCGTAAGGGGCCCCC
CCAGACTCCGAGACGGCCCCGAGCGGGTCGCCGGCTGTGGGACGGCGGCGTGCCCTTCCTTTCCCTCCCTCCAGGT
TCGCGCCCGAGCTCTGCTAGCCACCCGTCCGACAACCTTCCGGAATCCCAGGGACAGCCCTGCCATCAAGGAAGAC
AGCACAGGACTGGGACCCACCCATGAACCTTCTCAGGACAACCCAACAGCACCAGTGGGGATGTTCTCCTAAGC
CGCAGAGGGCCTGGGCACGCCATCCGTCTCCAGGAAGAGCCATGGTGTTAATGCAGGACAAGGGCAGCTCTCAG
CAGTGGCCTGGTCTGGGGGGGCGAGGGTGGTGGCAGAGTCCCTTAAGCATGCTCAGAGCTGCCCTGCTGCTCATC
AGCCTGCCATGGGGGGGCCAAGGGACAGCCAGCACCAGCCTCAGCACTGCTGGGGGTACACCCGTGCCACCGACT
GGGGGCGGCTACTTGAGCATTGGAGATGGCTCTGTGATGGAGTTTGTAGTTTCTGAGGACAGTGAGGGCATCATC
GTGATCTCCAGCCAGTACCCAGGCCAGGCCAACAGGACGGCGCCTGGCCCCATGCTCAGGGTCACCTCCCTGGAC
ACAGAGGTGCTGACCATCAAGAAGCTGAGTGTATTAACCTGGGGAGGGCGGGGGTGGCTTTGTGGTGAGCATCCAC
TCAGGCCTGGCTGGGCTGGCCCCACTCCACATCCAGCTCGTGGACGCCCCATGAGGCCCCGCCACACTGATTGAG
GAGCGGAGAGACTTCTGCATCAAGGTCTCACCTGCTGAAGACACGCCTGCCACCCTCAGCGCCGACCTGGCCCCAC
TTCTCGGAAAACCCAATCCTCTACCTGCTCCTGCCTCTTATCTTTGTCAACAAGTGTTGTTTGGGTGCAAAGTG
GAACTCGAGGTTCTGAAGGGGCTCATGCAGAGCCCCAGCCCATGCTGCTGGGCCTCCTGGGCCAGTTTCTGGTC
ATGCCCTTGTACGCTTTCCTCATGGCCAAGGTCTTCATGCTGCCCAAGGCCCTGGCTCTGGGCCTCATCATCACC
TGCTCGTCGCTGGCGGGCGGGGGAGCTACCTCTCAGCCTCCTTCTTGAGGGGACGTACCCCTGGCCATCTCC
ATGACTTTCTCTCTACGGTGGCTGCCACTGGCTTCTTGCCCTCTGTCTTCGGCCATCTACAGCCGCCTGCTCAGC
ATCCATGAGACGCTCCACGTGCCCATCTCCAAGATCCTGGGGACCCTGCTGTTTATTGCCATCCCCATAGCCGTG
GGCGTGCTGATCAAGTCCAAGCTCCCCAAGTTCTCCAGCTGCTGCTGCAGGTGCTCAAGCCCTTCAGCTTTGTG
CTCCTCCTGGGCGGCCCTCTTCTGGCCTATCGCATGGGGGTCTTCATCCTGGCAGGCATCCGGCTACCCATCGTA
CTGGTGGGTATCACGGTGGCCCTGGTTGGCCTGTGGTGGGCTACTGCCTAGCCACGTGTCTGAAGCTGCCAGTG
GCCCAGCGGCGGACGGTCAGCATTGAGGTAGGGGTGCAGAACAGCCTGCTGGCCTTGGCCATGCTGCAGCTATCC
CTCCGCGCCCTTCAAGCTGACTATGCCTCCAGGCCCCCTTCATTGTGGCGCTGAGCGGCACCTCCGAGATGCTG
GCCTTGGTCATTGGCCACTTCATCTACAGCAGCCTGTTCCAGTTCCCTTGAGGCCCTCTGGGTCAAGCTTTCATCA
GCCCCAGCCCCACACTCCACCAAAGTTCTCATGCACTATGCACTCAGAAAAATCCAGGCTTATTTTTTTACTGA
TTTTTTATTCTCCAGCTTTCAGTGCCAAAGAGGCCATGCTGAGTTAGGTAGGTGGGCGCTGCCAGAAAAATATAT
TTCAATAAAAGAGAGAAGCAAGC

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FIGURE 6322

MVLMQDKGSSQQWPGLGGEGGGTGPLSMLRAALLLISLPWGAQGTASTSLSTAGGHTVPPTGGRYLSIGDGSVME
FEFPEDSEGIIVISSQYPGQANRTAPGPMLRVTSLDTEVLTIKNVSATWGGGGGFVVSIIHSGLAGLAPLHIQLV
DAHEAPPTLIEERRDFCIKVSPAEDTPATLSADLAHFSENPILYLLPLIFVNKCSFGCKVELEVLRGLMQSPQP
MLLGLLGQFLVMPLYAFLMAKVFMLPKALALGLIITCSPGGGGSYLFSLLLGGDVILAI SMTFLSTVAATGFLP
LSSAIYSRLLSIHETLHVPISKILGTLLFIAIPIAVGVLIKSKLPKFSQLLLQVVKPFSFVLLLGGFLAYRMGV
FILAGIRLPIVLVGITVPLVGLLVGYCLATCLKLPVAQRRTVSIEVGVQNSLLALAMLQLSLRRLQADYASQAPF
IVALSGTSEMLALVIGHFIYSSLPVP

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CCGCGCGCTGCCGCTGCCGCTGTCTGCTGTCTGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCCGCTGCC
ATGGCTCAATACAAGGGCGCCGCGAGCGAGGCCGGCCGCGCCATGCACCTGATGAAGAAGCGGGAGAAGCAGCAGC
GAGCAGATGGAGCAGATGAAGCAGCGCATCGCGGAGGAGAACATCATGAAATCCAACATTGACAAGAAGTTCTCT
GCGCACTACGACGCGGTGGAGGCAGAGCTCAAGTCCAGCACCGTGGGTCTCTGTACCCCTGAATGACATGAAGGCC
AAGCAGGAGGCTCTGGTGAAGGAGCGGGAGAAGCAGCTGGCCAAGAAGGAGCAGTCCAAGGAGCTGCAGATGAAG
CTGGAGAAGCTTCGAGAGAAGGAGCGTAAGAAGGAAGCCAAGCGGAAGATCTCCAGCCTGTCTTCCCTTGAG
GAGGAAGAAGAGGGAGGCGAGGAGGAAGAGGAGGCGGCCATGTATGAGGAGGAGATGGAAAGGGAAAGATCACC
ACGAAGAAGAGAAAACTGGGGAAGAAGCCAGACGTTGACACAAGCTTCTTGCCGTATCGAGACCGGTGAGGAGGAG
GAGAATCGGCTTCGGGAAGAGCTGCGGCAGGAGTGGGAAGCCAAGCAGGAGAAGATCAAGAGTGAGGAGATCGAG
ATCACCTTCAGCTACTGGGATGGCTCTGGGCACCGGCGGACAGTCAAGATGAGAAAGGGCAACACCATGCAGCAG
TTCCTGCAGAAGGCGCTCGAGATCCCTTCGGAAGACTTCAGTGAGCTGAGGTCCGAGGGGTGGAGCAGCTCATG
TACATCAAGGAGGACTTGATCATCCCTCACCATCACAGCTTCTACGACTTCATCGTCACCAAGGCACGGGGGAAG
AGTGGACCACCTCTTCAACTTTGATGTTTCATGACGATGTGCGGTTGCTCAGTGACGCCACTGTGGAGAAGGATGAG
TCCCATGCAGGCAAGGTGGTGCTGAGGAGCTGGTACGAGAAGAACAAGCACATCTTTCCCGCCAGCCGCTGGGAA
CCCTACGACCTGAAAAGAAGTGGGACAAGTACACGATCCGCT**TGAG**CATCCAGGAGGCTGCGCGGCCCGGGCTCC
TCAGCTCCCTCAGTGTGCCCGTGGTGTACCGGGACTCCAGGCACCCGCTCCCTGCGACCATGCCAGGCACGC
TGGGAGGAGGACGGCAGCTGCTCGTGTCTTGCCCTGCCACATCAGTGACTGCTTTATTCTTTTCCAATAAAGAA
GTGCACGTGTCAGAGCTGGAGCGCCTGCATTGTGAG

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FIGURE 6324

MAQYKGAASEAGRAMHLMKKREKQREQMEQMKQRIAEENIMKSNIDKKFSAHYDAVEAELKSSTVGLVTLNDMKA
KQEALVKEREKQLAKKEQSKEIQMKLEKLREKERKKEAKRKISSLSFTLEEEEGGEEEEEAAMYEEEMEREIT
TKKRKLGKNPDVDTSFDPDRDREEEENRLREELRQEWAKQEKIKSEEIEITFSYWDGSGHRRTVKMRKGNTMQQ
FLQKALEILRKDFSELRSAGVEQLMYIKEDLIIPHHSFYDFIVTKARGKSGPLFNFDVHDDVRLLSDATVEKDE
SHAGKVVLRSWYEKNKHIFPASRWEPYDPEKKWDKYTIR

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FIGURE 6325

CTTGAACGCCTGACCTCGTATCCACCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGCCACCACGCC
CAGCCCATAATTTATTGATTTTTTAAAATTTGTCCAGCCTTCTATTACCACGTCGAATCCATTAGCTACAGCCAT
CCCATGAGAAGCTGAGTGGATTAGCCCCACCTCCTGCTCACAGACCCTGTCCGAGCACCTCATTGTCCCAACA
GCATTACTGCAGGACCCCCAGGACGTTGGACTGCCAGCTCCCTGGGTCTCCTCCTCTCTGGGGCAGATCCTCAGT
CCTCCCTTGACTTCACGACTGTGGCCAGATCATGTGTGGACTGTCCCTCTCTTTGGGTCTCCAGAGCGCTTGCA
CAAACACCCCTAACTCAGAAGTGTGCAGCCACACTGGGACTCAGAACCCAACAACAGGGACAGAAGACTCACGCC
CTTGGGGTGGCCGGTCTCGTGGCATCAGGCATGACTTCCAGCTCCTGCGCCTTCCCCAGCAACTGCTGACTGGGG
ACCCAGACCGGGAGCTGAGCGACGGGCCTGGCGAGCGAAGCTCGGGGTCTCACTCAGGCACCAGCCCCCTCCTTGC
CCCAGGCTTGAGTGACTCACAGCCCTATTAGGCAGGAGCTGCTCTTCTGGGGTATCGCGATCCACTTAAGGATG
AGGCAGACTTGGTGACAAGCTGGTCTGAGCAGCGCCTCCAGAGCCAGAACTGAGCCCAGTGAGAGCGCACCCCTGG
GGCAGCCTGGATTCCCTGGGGTGTCCCCGGCAGCCACACACAGCCATGCACTACCCAAGTGCCTCTCTCTCA
TCCTGGCCAATGGGGCCCAGGCCTTTCGATCTGCGCCTTCAATGCCAGCGGCTGCACTGGCCAAGGTGGCCA
GGGAGCAGGTGATGGACACCTTAGTTCGGATACTGGCTCGCTGTGACATCATGGTGTGTCAGGAGGTGGTGGACT
CTTCCGGCAGCGCCATCCCGCTCCTGCTTCGAGAACTCAATCGATTTGATGGCTCTGGGCCCTACAGCACCCTGA
GCAGCCCCCAGCTGGGGCGCAGCACCTACATGGAGACGTATGTGTACTTCTATCGGTACACAAAACACAGGTCC
TGAGTTCCTACGTGTACAACGATGAGGATGACGTCTTTGCCCGGGAGCCATTTGTGGCCAGTTCTCTTTGCCCA
GCAATGTCTTCCCAGCCTGGTGTGGTCCCGCTGCACACCACTCCTAAGGCCGTAGAGAAGGAGCTGAACGCCC
TCTACGATGTGTTTCTGGAGCTCTCCAGCACTGGCAGAGCAAGGACGTGATCCTGCTTGGGGACTTCAATGCTG
ACTGCGCTTCACTGACCAAAAAGCGCCTGGACAAGCTGGAGCTGCGGACTGAGCCAGGCTTCCACTGGGTGATTG
CCGATGGGGAGGACACCACAGTGGGGGCCAGCACCCACTGCACCTATGCCCGCGTGTGCTGCACGGGGAGCGCT
GCCGGAGTCTGTGTCACACTGCGGCTGCCTTTGACTTCCCCACGAGCTTCCAGCTCACCAGGAGGAGGCCCTCA
ACATCAGTGACCACTACCCCGTGGAGGTGGAGCTGAAGCTGAGCCAGGCGCACAGCGTCCAGCCTCTCAGCCTCA
CTGTTCTGTGTGCTATCACTCCTGTCCCCCTCAGCTGTGCCCTGCTGCTGAGCGTCCCCCTACCCCCCAGGG
CCTGCTGCCCTTTTGGGACTTAAACCCCAAGCCTCCCCCGTCCATCCAGCCCTGGGGCTGGGGGGCTTCAACTATAG
TTGCCCTGTGACTGTAGTCCACCCCTGCCTGCCTTGTGTTGATTTGGCTCTTGTTCTTTGGTTGGGCTTGTGCCTA
GATTAGGAGAGGAAGCCAGGGGCCCTGCACTCATGCCACCTGCCAGGTAGTGTAGTATCAGGAGTGGAGACAAAG
TGGGCTCTGGGTGGGGTAGGGGAAGGGAGGGTTAGAAAGAGGAATGAAGATGTTGTATGACAAGAAGGAAAGT
TACTGAGAACAACCAACCCAGATTGGTGAGATAGGACACTTGTGCAGCAGATATGCCAATGGGCCATGTTTATTGT
GGATTGGTAAGAATCACCAGGAAACCATTAAGCCCCAATAGCTACAAGGAGGGTGGTTAATCTGCTATATCAAAC
TCCTTCCCTGAAACCAGCAACACCGGGAAACATTTTGGCTCATTATAATCCGGTGAACAATGCAGTCAGGCCTG
TTATAACCGCTGAGCAGCCACACTCGCACCTCCTGGGTGCTGTAGTCTGTGTTGGTACAGGCTTCTGCATGCCTG
GTAAAGGTCCAGCCAAGGCTGGTCAAGGCAACATCTCCACACAGAAAATCTGCACCAAGTTATGTAAGCTAAAAAG
CTGTGTGAACCCAGGTGTCCCGGAAAGGGGCTGCAGGACACAGCAAAATGCCAGCAGCATGCCGGACCCCTCCCT
TCCATCCTCCTCTCCAAAGAAGAGAGGTGAGGAAAAACACTGGCTGGGACGCTAGAAGGGTCAATGTGTTAACTAT
AATCACATTTATGGTTTGGAAACCATCACCCCAAGGTAAAAAATAAAAGGTATTCCCAGGTATGTTTGGCAA
AATAAAATAAAGGTAATTAAAAACCT

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FIGURE 6326

CTCTTTCCCTTCGGTGTGCCACTGAAGATCCTGGTGTGCCCATCGGGCCGCCGCCCGCCCGTTGTTACCGGTATT
GTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGAGGTGTCCCTGATGCCAAGATTTCGCATTTTTGACCTGG
GGCGGAAAAAGGCAAAAGTGGATGAGTTTCCGCTTTGTGGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCCT
CTGAAGCCCTGGAGGCTGCCCGAATTTGTGCCAATAAGTACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATA
TCCGGGTGCGGCTCCACCCCTTCCACGTATCCGCATCAACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCC
AAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGCACTGTGGCCAGGGTTACATTGGCCAAGTTATCATGT
CCATCCGCACCAAGCTGCAGAACAGGAGCATGTGATTGAGGCCCTGCGCAGGGCCAAGTTCAAGTTTCTGGCC
GCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCAACAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTG
AAAAGCGGCTCATCCAGATGGCTGTGGGGTCAAGTACATCCCCAGTCGTGGCCCTCTGGACAAGTGGCGGGCCC
TGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTTAATACTACCAATAAATTCTACTTCTGTCCACCTAT
GTCTTTGTATCTACATTCTTGACGGGAAGGAACCTTCTCTGGGAACCTTTGGGTTCATTGCCCTTTCACTTCAGA
AACAGGTTGACAACTCAGCCCTGCTCATGAGGCAGCAAACCTGCAAAGGGCTGGGACTGGTGGCCTTATGTCAG
TTGTCTACTCTGGAGCTTGACTTGGACCTCCCCAGGTCCTAGGCAGTAGGTTGAAAAACACTGAAGTGCTTTTCA
TGAAGCACAGCTGCAGCAAAGCCTTGCAATCCCAGGCTGGGGTCAGCCTACAGTTGTGTTGCTTATTACAACACA
TGCGGACCAAGAGGGGCTTGTGGGCTAGAGGCTGACCAGCAGCGTTTATTTAGCAAGGGTAGGTGTGCATCATAT
TGGGCTTGTTCTCACCCATCTGGTTTGGCCATTCTCTCTTGGTGGGAATCATCCAGGTACTGCTGAGGTCACCTG
CGATTTGCCCCATTTCTATCTCTAGCAACCTCCTGGGCCCCATGCCCCACCCCTTCTAGAACCTGCATTCCCA
GGGCTTTCACCACCTGACCAAAGGTCTAGGCTAACCTTTGGTCATTGTAAACAAGACCTCGGAACAGACACGTGT
GTGGCATGGTTTGGCCTGGGGATCTTAGATGTCTGACCTGAACATTTGTAGAACAGCGCTGGCTTTTGGGGGAGC
AGCAAAAATGAGAGGAGTGCTAGGTGGGTGGCCTGAGCATCTGTATCCAGGGACAGGACTCCAAAGGCTTTTGGT
CCCAGAGCTGGGGTATGTTGGCCCCAGCCCCAGCCTGTGGCTCCCAAAAGGCCTCTGGTTTTTTGTAATCTCAG
TTTACAGCCATTTCTTAGGTTTTTAATTACCTTTATTTTATTTTGCCAAACATACCTGGGAATACCTTTTATTTT
TTTTTTACCTTGGGGTGATGGTTCCAAACCATAAATGTGATTATAGTTAACACATGACCTTCTAGCGTCCCAGC
CAGTGTTTTTCTGACCTCTCTTCTTTGGAGAGGAGGATGGAAGGGAGGGGTCCGGCATGCTGCTGGCATTGTC
TGTGTCTGACAGCCCTTTCCGGGACACCTGGGTTACACAGCTTTTAGCTTACATAACTGGTGCAGATTTTCT
GTGTGGAGATGTTGCCTTGACCAGCCTTGGCTGGACTTTACCAGGCATGCAGAAGCCTGTACCAACACAGACTAC
AGCACCCAGGAGGTGCGAGTGTGGCTGCTCAGCGGTTATAACAGGCCTGACTGCATTGTTACCGGATTATAATG
AGCCAAAATGTTTCCCGGTGTTTGTGCTGGTTTACGGGAAGGAGTTTGATATAGCAGATTAAACCACCTCCTTGTA
CTATTGGGGCTTAATGGTTTCTGGTGATTCTTACCAATCCACAATAACATGGCCCATTTGGCATATCTGCAAAA
AAAAAAAAAAAAA

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FIGURE 6327

MGRRPARYRYCKNKPYPKSRFCRGVPDAKIRIFDLGRKKAKVDEFPLCGHMSDEYEQLSSEALEAARICANKY
MVKSCGKDGFHIRVRLHPFHVIRINKMLSCAGADRLQTGMRGAFGKPQGTVARVHIGQVIMSIRTKLQNEHVIE
ALRRAKFKFPGRQKIHISKKWGFTKFNADEFEDMVAEKRLIPDGCGVKYIPSRGPLDKWRALHS

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FIGURE 6328

CGGCCGGTTTTGGTAGGCCCGGGCCGCCAGGCCTCCGCCTGAGCCCGCACCCGCCATGGACAACCTACGCAGA
TCTTTCGGATACCGAGCTGACCACCTTGCTGCGCCGGTACAACATCCCGCACGGGCCTGTAGTAGGATCAACTCG
TAGGCTTTACGAGAAGAAGATCTTCGAGTACGAGACCCAGAGGCGGCGGCTCTCGCCCCCAGCTCGTCCGCCGC
CTCCTCTTATAGCTTCTCTGACTTGAATTCGACTAGAGGGGATGCAGATATGTATGATCTTCCCAAGAAAGAGGA
CGCTTTACTCTACCAGAGCAAGGGCTACAATGACGACTACTATGAAGAGAGCTACTTCACCACCAGGACTTATGG
GGAGCCCGAGTCTGCCGGCCCGTCCAGGGCTGTCCGCCAGTCAGTGACTTCATTCCCAGATGCTGACGCTTTCCA
TCACCAGGTGCATGATGACGATCTTTTGTCTTCTTCTGAAGAGGAGTGCAAGGATAGGGAACGCCCCATGTACGG
CCGGGACAGTGCCTACCAGAGCATCACGCACTACCGCCCTGTTTCAGCCTCCAGGAGCTCCCTGGACCTGTCCTA
TTATCCTACTTCCTCCTCCACCTCTTTTATGTCCTCCTCATCATCTTCCTCTTCATGGCTCACCCGCCGTGCCAT
CCGGCCTGAAAACCGTGCTCCTGGGGCTGGGCTGGGCCAGGATCGCCAGGTCCCGCTCTGGGGCCAGCTGCTGCT
TTTCTTGGTCTTTGTGATCGTCCTCTTCTTCATTTACCACTTCATGCAGGCTGAAGAAGGCAACCCCTTCTAGAG
GGAGCCATGAGGGTCTGGGCTTCAGAGCTAGGTCTTTGGGGAAGTCCTGGCTGACTGCCTTAGCAGTGGGGGTGG
GGGTGGGGGCAGGGGCAGGGGCTTTATGTGTTTTTGCTTGGGGGGCGCTGGGCCTAGCCCAGAGTAGTGCTTGCT
CCCCCTGCCTTGTCACCAGGGAGGCAGCAGACTCAGGCCCTCCATGGTCCTCTTTGTCATTTTGTGACATGC
ATTCTCCTTTTGTATCTTGTGGGGGAGGGGATTAACCAAAGGCCACCCTGACTTTGTTTTTGTGGACACAC
AATAAAAGCCCCGTTTATTGT

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FIGURE 6329A

GC GATCCGGGGCGCCACCCCGCGGT CATCGGTACCGGTGCTCTCAGGAACAGCAGCGCAACCTCTGCTCCCTGC
CTCGCCTCCCGCGCGCCTAGGTGCTGCGACTTTAATTAAAGGGCCGTCCCTTCGCCGAGGCTGCAGCACCGCCC
CCCCGGCTTCTCGCGCCTCAAATGAGTAGCTCCCACTCTCGGGCGGGCCAGAGCGCAGCAGGCGCGGCTCCGGG
CGGCGGCGTCGACACGCGGGACGCCGAGATGCCGGCCACCGAGAAGGACCTGGCGGAGGACGCGCCGTGGAAGAA
GATCCAGCAGAACACTTTACGCGCTGGTGCAACGAGCACCTGAAGTGCGTGAGCAAGCGCATCGCCAACCTGCA
GACGGACCTGAGCGACGGGCTGCGGCTTATCGCGCTGTTGGAGGTGCTCAGCCAGAAGAAGATGCACCGCAAGCA
CAACCAGCGGCCCACTTTCCGCCAAATGCAGCTTGAGAACGTGTCGGTGGCGCTCGAGTTCCTGGACCGCGAGAG
CATCAAATGGTGTCCATCGACAGCAAGGCCATCGTGACGGGAACCTGAAGCTGATCCTGGGCCTCATCTGGAC
CCTGATCCTGCACTACTCCATCTCCATGCCCATGTGGGACGAGGAGGAGGATGAGGAGGCCAAGAAGCAGACCCC
CAAGCAGAGGCTCCTGGGCTGGATCCAGAACAAGCTGCCGAGCTGCCCATCACCAACTTCAGCCGGGACTGGCA
GAGCGGCCGGGCCCTGGGCGCCCTGGTGGACAGCTGTGCCCCGGGCTGTGTCCTGACTGGGACTCTTGGGACGC
CAGCAAGCCCGTTACCAATGCGCGAGAGGCCATGCGACAGGCGGATGACTGGCTGGGCATCCCCAGGTGATCAC
CCCCGAGGAGATTGTGGACCCCAACGTGGACGAGCACTCTGTGATGACCTACCTGTCCAGTTCCCCAAGGCCAA
GCTGAAGCCAGGGGCTCCCTTGCGGCCCAAATGAACCCGAAGAAAGCCCGTGCCTACGGGCCAGGCATCGAGCC
CACAGGCAACATGGTGAAGAAGCGGGCAGAGTTCACTGTGGAGACCAGAAGTGCTGGCCAGGGAGAGGTGCTGGT
GTACGTGGAGGACCCGGCCGGACACCAGGAGGAGGCAAAAGTGACCGCCAATAACGACAAGAACCGCACCTTCTC
CGTCTGGTACGTCCCCGAGGTGACGGGACTCATAAGGTTACTGTGCTCTTTGCTGGCCAGCACATCGCCAAGAG
CCCCCTTCGAGGTGTACGTGGATAAGTCACAGGTGACGCCAGCAAAGTGACAGCCCAAGGTCCCGGCCTGGAGCC
CAGTGGCAACATCGCCAACAAGACCACCTACTTTGAGATCTTTACGGCAGGAGCTGGCACGGGCGAGGTCTAGGT
TGTGATCCAGGACCCCATGGGACAGAAGGGCACGGTAGAGCCTCAGCTGGAGGCCCGGGGCGACAGCAGCATACCG
CTGCAGCTACCAGCCACCATGGAGGGCGTCCACACCGTGCACGTACGTTTGCCGCGCTGCCCATCCCTCGCAG
CCCCTACACTGTCACTGTTGGCCAAGCCTGTAACCCGAGTGCTGCCGGGCGGTTGGCCGGGGCCTCCAGCCCAA
GGGTGTGCGGGTGAAGGAGACAGCTGACTTCAAGGTGTACACAAAGGGCGCTGGCAGTGGGGAGCTGAAGGTAC
CGTGAAGGGCCCCAAGGGAGAGGAGCGGTGAAGCAGAAGGACCTGGGGGATGGCGTGTATGGCTTCGAGTATTA
CCCCATGGTCCCTGGAACCTATATCGTCACCATACGTTGGGTGGTCAAGACATCGGGCGCAGTCCCTTCGAAGT
GAAGGTGGGCACCGAGTGTGGCAATCAGAAGGTACGGGCTGGGGCCCTGGGCTGGAGGGCGGCGTCTGGCAA
GTGACGAGACTTTGTGGTGGAGGCTATCGGGGACGCTGGGCACGCTGGGCTTCTCGGTGGAAGGGCCATCGCA
GGCTAAGATCGAATGTGACGACAAGGGCGACGGCTCCTGTGATGTGCGCTACTGGCCGAGGAGGCTGGCGAGTA
TGCCGTTACAGTGCTGTGCAACAGCGAAGACATCCGCCTCAGCCCCCTTCATGGCTGACATCCGTGACGCGCCCCA
GGACTTCCACCCAGACAGGGTGAAGGCACGTGGGCCTGGATTGGAGAAGACAGGTGTGGCCGTCAACAAGCCAGC
AGAGTTACAGTGGAATGCCAAGCACGGTGGCAAGGCCCACTTCGGGTCCAAGTCCAGGACAATGAAGGCTGCC
TGTGGAGGCGTTGGTCAAGGACAACGGCAATGGCACTTACAGCTGCTCCTACGTGCCCAGGAAGCCGGTGAAGCA
CACAGCCATGGTGTCTGGGAGGCGTCAGCATCCCCAACAGCCCCCTTCAGGTGAATGTGGGAGCTGGCAGCCA
CCCCAACAAAGGTCAAAGTATACGGCCCCGAGTAGCCAAGACAGGGCTCAAGGCCACGAGCCACCTACTTCAC
TGTGGACTGCGCCGAGGCTGGCCAGGGGACGTGAGCATCGGCATCAAGTGTGCCCTGGAGTGGTAGGCCCCGC
CGAAGCTGACATCGACTTCGACATCATCCGCAATGACAATGACACCTTACGGTCAAGTACAGCCCCGGGGGC
TGGCAGCTACACCATTATGGTCTCTTTGCTGACAGGCCACGCCACCAGCCCCATCCGAGTCAAGGTGGAGCC
CTCTCATGACGCCAGTAAGGTGAAGGCCGAGGGCCCTGGCCTCAGTCGCACTGGTGTGAGCTTGGCAAGCCAC
CCACTTCACAGTAAATGCCAAAGCTGCTGGCAAAGGCAAGCTGGACGTCCAGTTCTCAGGACTCACCAAGGGGA
TGCAGTGCGAGATGTGGACATCATCGACCACCATGACAACACCTACACAGTCAAGTACACGCTGTCCAGCAGGG
TCCAGTAGGCGTCAATGTCACTTATGGAGGGATCCCATCCCTAAGAGCCCTTTCTCAGTGGCAGTATCTCCAAG
CCTGGACCTCAGCAAGATCAAGGTGTCTGGCCTGGGAGAGAAGGTGGACGTGGCAAAGACCAGGAGTTCACAGT
CAAATCAAAGGGTGTGGTGGTCAAGGCAAAGTGGCATCCAAGATTGTGGGCCCCCTCGGGTGCAGCGGTGCCCTG
CAAGGTGGAGCCAGGCCCTGGGGGCTGACAACAGTGTGGTGCCTTCTGCCCGTGAGGAAGGGCCCTATGAGGT
GGAGGTGACCTATGACGGCGTGCCCGTGCCTGGCAGCCCCCTTCTCTGGAAGCTGTGGCCCCCACCAAGCCTAG
CAAGGTGAAGGCGTTTGGGCCGGGGCTGCAGGGAGGCAAGTGCGGGCTCCCCCGCCGCTTACCATCGACACCAA
GGGCGCCGGCACAGGTGGCCTGGGCTGACGGTGGAGGGCCCTGTGAGGCGCAGCTCGAGTGCTTGGACAATGG
GGATGGCACATGTTCCGTGTCTACGTGCCACCGAGCCCGGGGACTACAACATCAACATCCTCTTCGCTGACAC

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FIGURE 6329B

CCACATCCCTGGCTCCCCATTCAAGGCCACGTGGTTCCCTGCTTTGACGCATCCAAAGTCAAGTGCTCAGGCCC
CGGGCTGGAGCGGGCCACCGCTGGGGAGGTGGGCCAATTCCAAGTGGACTGCTCGAGCGCGGGCAGCGCGGAGCT
GACCATTGAGATCTGCTCGGAGGCGGGGCTTCCGGCCGAGGTGTACATCCAGGACCACGGTGATGGCACGCACAC
CATTACCTACATTCCCCTCTGCCCCGGGGCTACACCGTCACCATCAAGTACGGCGGCCAGCCCGTGCCCAACTT
CCCCAGCAAGCTGCAGGTGGAACCTGCGGTGGACACTTCCGGTGTCAGTGCTATGGGCCTGGTATTGAGGGCCA
GGGTGTCTTCCGTGAGGCCACCACTGAGTTCAGTGTTGAGCGCCCGGGCTCTGACACAGACCGGAGGGCCGCACGT
CAAGGCCCCGTGTGGCCAACCCCTCAGGCAACCTGACGGAGACCTACGTTTACAGGACCGTGGCGATGGCATGTACAA
AGTGGAGTACACGCCTTACGAGGAGGGACTGCACTCCGTGGACGTGACCTATGACGGCAGTCCCCTGCCCCAGCAG
CCCCTTCCAGGTGCCCCGTGACCGAGGGCTGCGACCCCTCCCGGGTGCGTGTCACGGGGCCAGGCATCCAAAGTGG
CACCACCAACAAGCCCAACAAGTTCAGTGTGGAGACCAGGGGAGCTGGCACGGGCGGCCTGGGCCTGGCTGTAGA
GGGCCCCCTCCGAGGCCAAGATGTCTGTCATGGATAACAAGGACGGCAGCTGCTCGGTGAGTACATCCCTTATGA
GGCTGGCACCTACAGCCTCAACGTACCTATGGTGGCCATCAAGTGCCAGGCAGTCCCTTTCAAGGTCCCTGTGCA
TGATGTGACAGATGCGTCCAAGGTCAAGTGCTCTGGGCCCCGGCTGAGCCAGGCATGGTTTCGTGCCAACCTCCC
TCAGTCCCTTCCAGGTGGACACAAGCAAGGTGGTGTGGCCCCATTGCAAGTCAAAGTGCAAGGGCCCCAAAGGCCT
GGTGGAGCCAGTGGACGTGGTAGACAACGTGATGGCACCCAGACCGTCAATTATGTGCCCAGCCGAGAAGGGCC
CTACAGCATCTCAGTACTGTATGGAGATGAAGAGGTACCCCGGAGCCCCCTTCAAGGTCAAGGTGCTGCCTACTCA
TGATGCCAGCAAGGTGAAGGCCAGTGGCCCCGGGCTCAACACCCTGCGGTGCTGCCAGCCTGCCCCGTGGAGTT
CACCATCGATGCAAAGGACGCCGGGGAGGGCTGCTGGCTGTCCAGATCACGGATCCCGAAGGCAAGCCGAAGAA
GACACACATCCAAGACAACCATGACGGCACGTATACAGTGGCCTACGTGCCAGACGTGACAGGTGCTACACCAT
CCTCATCAAGTACGGTGGTGACGAGATCCCTTCTCCCCGTACCGCGTGCGTGCCGTGCCCCACGGGGACGCCAG
CAAGTGCACGTGTACAGGTGCTGGCATCGGCCCCACCATTGAGATTGGGGAGGAGACGGTGATCACTGTGGACAC
TAAGGCGGCAGGCAAAGGCAAAGTGACGTGCACCGTGTGCACGCCTGATGGCTCAGAGGTGGATGTGGACGTGGT
GGAGAATGAGGACGGCACTTTCGACATCTTCTACACGGCCCCCAGCCGGGCAAATACGTCACTGTGTGCGCTT
TGGTGGCGAGCAGTGGCCAAACAGCCCCCTTCAAGTGACGGCTCTGGCTGGGGACCAGCCCTCGGTGAGCCCCC
TCTACGGTCTCAGCAGTGGCCCCACAGTACACCTACGCCCCAGGGCGGCCAGCAGACTTGGGCCCCGGAGAGGCC
CCTGGTGGGTGTCAATGGGCTGGATGTGACACCGCTGAGGCCCCCTTGACCTTGTGATCCCTTACCATCAAGAA
GGGCGAGATCACAGGGGAGGTTTCGATGCCCTCAGGCAAGTGGCGCAGCCCAACCATCACTGACAACAAAGACGG
CACCGTGACCGTGCGGTATGCACCCAGCGAGGCTGGCTGCACGAGATGGACATCCGCTATGACAACATGCACAT
CCCAGGAAGCCCCCTTGAGTTCTATGTGGATTACGTCAACTGTGGCCATGTCACTGCCTATGGGCCTGGCCTCAC
CCATGGAGTAGTGAACAAGCCTGCCACCTTACCCTCAACACCAAGGATGCAGGAGAGGGGGGCTGTCTCTGGC
CATTGAGGGCCCGTCCAAAGCAGAAATCAGCTGCACTGACAACAGGATGGGACATGCAGCGTGTCTACCTGCC
TGTGCTGCCGGGGGACTACAGCATTCTAGTCAAGTACAATGAACAGCACGTCCCAGGCAGCCCCCTTCACTGCTCG
GGTCACAGGTGACGACTCCATGCGTATGTCCACCTAAAGGTGCGCTCTGCTGCCGACATCCCCATCAACATCTC
AGAGACGGATCTCAGCCTGCTGACGGCCACTGTGGTCCCGCCCTCGGGCCGGGAGGAGCCCTGTTTGTGAAGCG
GCTGCGTAATGGCCACGTGGGGATTTTATTCTGTCGCCAAGGAGACGGGGGAGCACCTGGTGCATGTGAAGAAAA
TGGCCAGCACGTGGCCAGCAGCCCCATCCCGTGGTGATCAGCCAGTCGGAAATTGGGGATGCCAGTCGTGTTTCG
GGTCTCTGGTCAGGGCCTTACGAAGGCCACACCTTTGAGCCTGCAGAGTTTATCATTGATACCCGCGATGCAGG
CTATGGTGGGCTCAGCCTGTCCATTGAGGGCCCCAGCAAGGTGGACATCAACACAGAGGACCTGGAGGACGGGAC
GTGCAGGGTCACTACTGCCCCACAGAGCCAGGCAACTACATCATCAACATCAAGTTTGGCGACCAGCACGTGCC
TGGCAGCCCCCTTCTCTGTGAAGGTGACAGGCGAGGGCCGGGTGAAAGAGAGCATACCCGCGAGGCGTGGGCTCC
TTCAGTGGCCAACGTTGGTAGTCAATTGTGACCTCAGCCTGAAAAATCCCTGAAATTAGCATCCAGGATATGACAGC
CCAGGTGACCAGCCCATCGGGCAAGACCCATGAGGCCGAGATCGTGGAAGGGGAGAACCACACCTACTGCATCCG
CTTTGTTCCCGCTGAGATGGGCACACACAGTCAAGCTGAAGTACAAGGGCCAGCACGTGCCTGGGAGCCCCCTT
CCAGTTACCGTGGGGCCCCCTAGGGGAAGGGGGAGCCACAAGGTCCGAGCTGGGGGCCCTGGCCTGGAGAGAGC
TGAAGCTGGAGTGCCAGCCGAATTCAGTATCTGGACCCGGGAAGCTGGTGCTGGAGGCCTGGCCATTGCTGTGCA
GGGCCCCAGCAAGGCTGAGATCTCTTTTGGAGACCGCAAGGACGGCTCCTGTGGTGTGGCTTATGTGGTCCAGGA
GCCAGGTGACTACGAAGTCTCAGTCAAGTTCAACGAGGAACACATTCGCGACAGCCCCCTTCGTGGTGCCTGTGGC
TTCTCCGTCTGGCGACGCCCCGCCCTCACTGTTTCTAGCCTTCAGGAGTCAGGGCTAAAGGTCAACAGCCAGC

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FIGURE 6282

CAGGAGGAGACAGCCTCCCGGCCCGGGGAGGACAAGTCGCTGCCACCTTTGGCTGCCGACGTGATTCCCTGGGAC
GGTCCGTTTTCCTGCCGTCAGCTGCCGGCCGAGTTGGGTCTCCGTGGTTTCAGGCCGGCTCCCCCTTCCTGGTCTCC
CTTCTCCCGCTGGGCGGTTTATCGGGAGGAGATTGTCTTCCAGGGCTAGCAATTGGACTTTTGATGATGTTTGA
CCCAGCGGCAGGAATAGCAGGCAACGTGATTTCAAAGCTGGGCTCAGCCTCTGTTTCTTCTCTCGTGTAATCGCA
AAACCCATTTTGGAGCAGGAATTCCAATCATGTCTGTGATGGTGGTGAGAAAGAAGGTGACACGGAAATGGGAGA
AACTCCCAGGCAGGAACACCTTTTGCTGTGATGGCCGCGTCATGATGGCCCGGCAAAAGGGCATTTCCTACCTGA
CCCTTTTCTCATCTCGGGACATGTACACTCTTCTTCGCCTTTGAGTGCCGCTACCTGGCTGTTTCAGCTGTCTC
CTGCCATCCCTGTATTGCTGCCATGCTCTTCCTTTTCTCCATGGCTACACTGTTGAGGACCAGCTTCAGTGACC
CTGGAGTGATTCCCTCGGGCGCTACCAGATGAAGCAGCTTTCATAGAAATGGAGATAGAAGCTACCAATGGTGCGG
TGCCCCAGGGCCAGCGACCACCGCTCGTATCAAGAATTTCCAGATAAAACAACCAGATTGTGAAACTGAAATACT
GTTACACATGCAAGATCTTCCGGCCCTCCCGGGCCTCCCATTCAGCATCTGTGACAACTGTGTGGAGCGCTTCG
ACCATCACTGCCCCCTGGGTGGGGAATTGTGTTGGAAGAGGAACTACCGCTACTTCTACCTCTTCATCTTTCTC
TCTCCCTCCTCACAATCTATGTCTTCGCCTTCAACATCGTCTATGTGGCCCTCAAATCTTTGAAAATTGGCTTCT
TGGAGACATTGAAAGAACTCCTGGAAGTGTCTAGAAGTCCTCATTTGCTTCTTTACACTCTGGTCCGTCGTGG
GACTGACTGGATTTTCATACTTTCTCGTGGCTCTCAACCAGACAACCAATGAAGACATCAAAGGATCATGGACAG
GGAAGAATCGCGTCCAGAATCCCTACAGCCATGGCAATATTGTGAAGAACTGCTGTGAAGTGCTGTGTGGCCCT
TGCCCCCAGTGTGCTGGATCGAAGGGGTATTTGCCACTGGAGGAAAGTGGAAGTCGACCTCCCAGTACTCAAG
AGACCAAGTAGCAGCCTCTTGCCACAGAGCCCGAGCCCCACAGAACACCTGAACTCAAATGAGATGCCGGAGGACA
GCAGCACTCCCGAAGAGATGCCACCTCCAGAGCCCCAGAGCCACCACAGGAGGCAGCTGAAGCTGAGAAGTAGC
CTATCTATGGAAGAGACTTTTGTGTTGTTAATTAGGGCTATGAGAGATTTAGGTGAGAAGTTAAACCTGAGA
CAGAGAGCAAGTAAGCTGTCCCTTTTAACTGTTTTCTTTGGTCTTTAGTCACCCAGTTGCACACTGGCATTTC
TTGCTGCAAGCTTTTTTAAATTTCTGAAGTCAAGGCAGTGGCAGAAGATGTCAGTCACCTCTGATAACTGGAAAA
ATGGGTCTCTTGGGCCCTGGCACTGGTT

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FIGURE 6283

LFLLS CNRKTHFGAGIPIMSV MVVRKKVTRKWEKLPGRNTFC CDGRVMMARQKGIFYLTFLILGTCTLFFAFEC
RYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQIN
NQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHC PWVGNVCVGKRNRYFYLFILSLSLTIYVFAFNIVYVA
LKSLKIGFLET LKETPGTVLEV LICFFTLWSVVG LTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKN
CCEVLCG PLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPQ
EAAEAEK

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FIGURE 6284

TGCTTTCCTTCGGCTTCCGTTCTTGGTCCATGTGAGAGAAGCTGGCTGCTGAAATGACTGCGAACCGGCTTGCAG
AGAGCCTTCTGGCTTTGAGCCAACAGGAAGAACTAGCGGATTTGCCAAAAGACTACCTCTTGAGTGAGAGTGAAG
ATGAGGGGGACAATGATGGAGAGAGAAAAGCATCAAAAGCTTCTGGAAGCAATCAGTTCCCTTGATGGAAAGAATA
GGCGGAAATTGGCTGAGAGGTCTGAGGCTAGTCTGAAGGTGTGAGAGTTCAATGTCAGTTCTGAAGGATCAGGAG
AAAAGCTGGTTCCTTGCAGATCTGCTTGAGCCTGTAAAACTTCATCTTCTTTGGCCACTGTGAAAAAGCAACTGA
GTAGAGTCAAATCAAAGAAGACAGTGGAGTTACCTCTGAACAAAGAAGAGATTGAACGGATCCACAGAGAAGTAG
CATTCAATAAAACCGCACAAAGTCCCTCTCCAAATGGGACCTGTGCTCTGAAGAACCGGCAGGCAGAGCAGCTGG
TTTTTCCCTTGGAGAAAGAGGAGCCAGCCATTGCTCCCATTGAACATGTGCTCAGTGGCTGGAAGGCAAGAACTC
CCCTGGAGCAGGAAATTTTCAACCTCCTCCATAAGAACAAGCAGCCAGTGACAGACCTTTTACTGACCCCTGTGG
AAAAGGCTCTCTCCGAGCCATGAGCCTAGAAGAGGCAAGATGCGACGAGCAGAGCTTCAGAGGGCTCGGGCTC
TGCAGTCTTACTATGAGGCCAAGGCTCGAAGAGAGAGAAAATCAAAAGTAAAAAGTATCACAAAGTCGTGAAGA
AAGGAAAGGCCAAGAAAGCCCTAAAAGAGTTTGAGCAGCTGCGGAAGGTAAATCCAGCTGCAGCACTAGAAGAAC
TGGAAAAAATTGAAAAGGCCAGAATGATGGAAAGAATGAGCCTTAAGCACCAAAACAGTGGGAAATGGGCCAAGT
CAAAGGCAATTATGGCCAAATATGACCTGGAGGCTCGCCAAGCTATGCAGGAACAGTTGTCTAAGAACAAGAAC
TGACACAGAACTCCAGGTAGCCTCTGAGAGTGAGGAAGAGGAGGGAGGCACAGAAGATGTGGAAGAATCCTTG
TCCCTGATGTAGTGAATGAAGTGCAGATGAATGCAGATGGGCCGAATCCCTGGATGCTCAGGAGCTGCACCAAGT
ACACCAAAGAGGCTGCAACCCAGGAGGACCTGAGCAACTGCCAGAGCTTGAGGCCCATGGAGTTTCTGAAAGTG
AGGGAGAAGAAAGACCAGTGGCAGAAGAGAAATTTGTTGAGAGAATTTGAGGAAAGGCATCCCTTAGAAAAA
GATCTGAGCTCAGCCAAGATGCTGAGCCAGCAGGCAGTCAAGAAACAAAAGATTCTGGCAGCCAGGAGGTGCTGT
CTGAATTGAGAGTACTATCTCAGAAATTGAAGGAAAACCATCAGTCCAGGAAGCAAAAAGCAAGTTCAGAGGGGA
CTATTCCCAGGTCCAGAGAGAGGAACCTGCCCCAGAAGAAGAGGAGCCCTGTTGCTACAGAGACCAGAGAGAG
TACAGACGCTGGAAGAGCTAGAAGAGCTGGGAAAAGAAGAATGTTTCAAATAAGGAGCTTCCCAGACCTGTGT
TAGAAGGGCAGCAGTCAGAGAGGACCCCAAATAATCGCCCTGATGCCCTAAGGAGAAGAAAAAGAAGGAGCAAA
TGATCGACCTACAGAACCCTCCTAACCACACAATCTCCCTCCGTGAAGTCTTTGGCAGTTCCACAAATAGAGGAGC
TGGAAGATGAAGAGGAGAGAAACCATAGGCAGATGATAAAGGAAGCTTTTGCTGGGGATGATGTCATCAGAGATT
TCTTGAAAGAGAAGAGGGGAAGCTGTGGAGGCCAGTAAGCCAAAGGACGTGGACCTGACACTACCTGGCTGGGGCG
AGTGGGGTGGTGTGGGCCTAAAGCCCAGTGCCAAGAAAAGACGCGGTTTCTCATTAAAGCCCTGAGGGTCCTC
CAAGAAAAGATAAGAATTTGCCAAATGTGATTATCAATGAGAAGCGCAACATCCACGCAGCTGCTCATCAGGTAC
GAGTGCTTCCATATCCATTTACCCACCATTTGGCAATTTGAAAGGACCATCCAGACCCCATAGGATCCACATGGA
ACACCCAGAGGGCTTTCCAAAAGCTGACTACTCCCAAGGTCGTACCAAGCCAGGCCATATCATTAACCCATAA
AAGCAGAAGACGTGGGCTACCGGTCTTCCCTCAAGGTCGGACCTGTCTGTCATACAGAGGAATCCAAAACGAATCA
CCACACGTCACAAAAACAGCTGAAGAAATGCTCTGTAGATTGAGTTGCTGGAGGAGTGACAGCCAGGAGCCCTG
ACTTCACTTCTTTGGTCCAGTTTACTCTGATACAGGGTGGATTCCAAAAGTGGCTCAGTACATTGCATGTAGT
TAAGCCACATTTTAAAAATAAAGGCATTTTAAATCT

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FIGURE 6285

AGAGGAAAGGGAAGGAGGAGGTCCCGAATAGCGGTGCGCGAAATGTTCCGGTGTGGAGGCCTGGCGGCGGGTGCT
TTGAAGCAGAAGCTGGTGCCCTTGGTGCGGACCGTGTGCGTCCGAAGCCCGAGGCAGAGGAACCGGCTCCCAGGC
AACTTGTTCCAGCGATGGCATGTTCTCTAGAACTCCAGATGACAAGACAAATGGCTAGCTCTGGTGCATCAGGG
GGCAAAATCGATAATTCTGTGTTAGTCCCTTATTGTGGGCTTATCAACAGTAGGAGCTGGTGCCTATGCCTACAAG
ACTATGAAAGAGGACGAAAAAGATACAATGAAAGAATTTCAAGGTTAGGGCTGACACCAGAACAGAAACAGAAA
AAGGCCGCGTTATCTGCTTCAGAAGGAGAGGAAGTTCTCAAGACAAGGCGCCAAGTCATGTTCTTTCTTGCTA
ATTGGTGGAGGCACAGCTGCTTTTGTGTCAGCCAGATCCATCCGGGCTCGGGATCCTGGGGCCAGGGTACTGATT
GTATCTGAAGATCCTGAGCTGCCGTACATGCGACCTCTCTTTCAAAGAAGTGTGGTTTTAGATGACCCAAAT
GTCACAAAGACACTGCGATTCAAACAGTGGAAATGGAAAAGAGAGAAGCATATATTTCCAGCCACCTTCTTTCTAT
GTCTCTGCTCAGGACCTGCCCTCATATTGAGAAATGGTGGTGTGGCTGTCTCACTGGGAAGAAGGTAGTACAGCTG
GATGTGAGAGACAACATGGTGAACCTTAATGATGGCTCTCAAATAACCTATGAAAAGTGTGATTGCAACAGGA
GGTACTCCAAGAAGTCTGTCTGCCATTGATAGGGCTGGAGCAGAGGTGAAGAGTAGAACAACGCTTTTCAGAAAG
ATTGGAGACTTTAGAAGCTTGGAGAAGATTTACGGGAAGTCAAATCAATTACGATTATCGGTGGGGGCTTCCTT
GGTAGCGAACTGGCCTGTGCTCTTGGCAGAAAGGCTCGAGCCTTGGGCACAGAAGTGATTCAACTCTTCCCGAG
AAAGGAAATATGGGAAGATCCTCCCGAATACCTCAGCAACTGGACCATGGAAAAAGTCAGACGAGAGGGGGTT
AAGGTGATGCCCCAATGCTATTGTGCAATCCGTTGGAGTCAGCAGTGGCAAGTTACTTATCAAGCTGAAAGACGGC
AGGAAGGTAGAACTGACCACATAGTGGCAGCTGTGGGCTGGAGCCCAATGTTGAGTTGGCCAAGACTGGTGGC
CTGGAAATAGACTCAGATTTTGGTGGCTTCCGGGTAAATGCAGAGCTACAAGCACGCTCTAACATCTGGGTGGCA
GGAGATGCTGCATGCTTCTACGATATAAAGTTGGGAAGGAGGCGGGTAGAGCACCATGATCAGCTGTTGTGAGT
GGAAGATTGGCTGGAGAAAATATGACTGGAGCTGCTAAGCCGTACTGGCATCAGTCAATGTTCTGGAGTGATTG
GGCCCCGATGTTGGCTATGAAGCTATTGGTCTTGTGGACAGTAGTTTGCCACAGTTGGTGTGTTTTGCAAAAGCA
ACTGCACAAGACAACCCCAAATCTGCCACAGAGCAGTCAGGAAGTGGTATCCGATCAGAGAGTGAGACAGAGTCC
GAGGCCTCAGAAATTACTATTCTCCAGCACCCCGGCAGTTCCACAGGCTCCCGTCCAGGGGGAGGACTACGGC
AAAGGTGTCTCTTCTACCTCAGGGACAAAGTGGTCTGTGGGATTGTGCTATGGAACATCTTTAACCGAATGCCA
ATAGCAAGGAAGATCATTAAGGACGGTGAGCAGCATGAAGATCTCAATGAAGTAGCCAAACTATTCAACATTCAT
GAAGACTGAAGCCCCACAGTGAATTGGCAA

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FIGURE 6286

MFRCGGLAAGALKQKLVLVRLVTVCVRSRQRNRLPGNLFQRWHVPLELQMTRQMASSGASGGKIDNSVLVLIVGL
STVGAGAYAYKTMKEDEKRYNERISGLGLTPEQKQKKAALSASEGEEVPQDKAPSHVPFLLIGGGTAFAAARSI
RARDPGARVLIVSEDPPELPMRPPLSKELWFSDDPNVTKTLRFKQWNGKERSIYFQPPSFYVSAQDLPHIENGGV
AVLTGKKVQLDVRDNMVKLNDGSQITYEKCLIATGGTPRSLSAIDRAGAEVKSRTTLFRKIGDFRSLEKISREV
KSITIIGGGFLGSELACALGRKARALGTEVIQLFPEKGNMGKILPEYLSNWTMEKVRREGVKVMPNAIVQSVGVS
SGKLLIKLKDGRKVETDHIVAAGLEPNVELAKTGGLEIDSDFGGFRVNAELQARSNIWVAGDAACFYDIKLGRR
RVEHHDHAVVSGRLAGENMTGAAKPYWHQSMFWSDLGPDVGYEAGLVDSSLPTVGVFAKATAQDNPKSATEQSG
TGIRSESETESEASEITIPPSTPAVPQAPVQGEDYGKGVIFYLRDKVVVGIVLWNIFNRMPIARKIIKDGEQHED
LNEVAKLFNIHED

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FIGURE 6287

CCCTCCCCTGCCTGCATTCCCGGGACGGACCCGAGGGAAGAAGCCTCAGGAGGAGGGTGTGGGCCGAGGCGCGGC
GGCGGCTGGAGCAGCGCGGTAGGGTCCTTCGCCAGAGCATCCGGTCCGAGGGCGCACACAGGCAGAAGGCTCGGG
GCTCGTCCACTCTCCTCCCTCTCTCCTCCTCTCCCTGGCTTTGTGTTGGTGCCTCCGAGCTGCAAGGAGGGTGC
CTGGAGGAGGAGGAGGGGGGGCCCGGAGTGAGAGGCACCCCTTCACGCGCGCGCGCGCACACGGTGCCGGCGCAC
GCACACACGGGCGGACACACACACACGCGCGCACACACACGACAGAGCTCGCTCGCCTCGAGCGCACGAACG
TGGACGTTCTCTTTGTGTGGAGCCCTCAAGGGGGGTGGGGCCCCGGTTTCGGTCCGGGGGAGATGGCGCAGCCCA
TCCTGGGCCATGGGAGCCTGCAGCCCGCCTCGGCCGCTGGCCTGGCGTCCCTGGAGCTCGACTCGTCGCTGGACC
AGTACGTGCAGATTTCGCATCTTCAAAATAATCGTGATTGGGGACTCCAACGTGGGCAAGACCTGCCTGACCTTCC
GCTTCTGCGGGGGTACCTTCCCAGACAAGACTGAAGCCACCATCGGCCGTGGACTTCAGGGAGAAGACCGTGGAAA
TCGAGGGCGAGAAGATCAAGGTTTCAGGTGTGGGACACAGCAGGTGAGGAACGTTTCCGCAAAAGCATGGTCGAGC
ATTACTACCGCAACGTACATGCCGTGGTCTTCGTCTATGACGTCACCAAGATGACATCTTTCACCAACCTCAAAA
TGTGGATCCAAGAATGCAATGGGCATGCTGTGCCCCACTAGTCCCCAAAGTGCTTGTGGGCAACAAGTGTGACT
TGAGGGAACAGATCCAGGTGCCCTCCAACCTTAGCCCTGAAATTTGCTGATGCCCAACATGCTCTTGTGTTGAGA
CATCGGCCAAGGACCCCAAAGAGAGCCAGAACGTGGAGTCGATTTTCATGTGCTTGGCTTGCCGATTGAAGGCC
AGAAATCCCTGCTGTATCGTGATGCTGAGAGGCAGCAGGGGAAGGTGCAGAACTGGAGTTCCACAGGAAGCTA
ACAGTAAACTTCCTGTCTTGTGAAACCAAACGATATAAATACAAGATAAATTATCACTGGAGTTTTTCTTT
CCCTTTTTTCTGTGCCTGCATAATGCTGACACCTGCTTGTTCATACAATTGATATCAAAATAAAATTTGTAT
AGATTATC

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FIGURE 6288

MAQPILGHGSLQPASAAGLASLELDSSLDQYVQIRIFKIIVIGDSNVGKTCLTFRFCGGTFPDKTEATIGVDFRE
KTVEIEGEKIKVQVWDTAGQERFRKSMVEHYRNVHAVVFVYDVTKMTSFTNLKMWIECNHGVPLVPKVLVG
NKCDLREIQVPSNLALKFADAHNMLLFETSAKDPKESQNVESIFMCLACRLKAQKSLLYRDAERQQGKVQKLEF
PQEANSKTSCPC

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FIGURE 6289

GCCCCACCCTCGACATGCGCTTCCGGCGACGCCTTAGCGCTGACCCCCACGCAACCCAGCGAAACTCCGCGGAG
CGCGCGCGGCACGATGGACGGTCGGGTGCAGCTGATGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCCGCGGCGCG
TCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGTTTGACGGAGATAACCGACCGACTCCCGGAGTTTCATCGTGCA
GACGAGCTCCTACATGTTTCGTGGACGAGAACACGTTCTCCAACGACGCCCTGAAGGTGCAAGCTGGGCTCCTGTT
ACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCAACTACATC
ATTCTGCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGCTCCTAGTG
ATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCCGTCCCCCA
AGGAGCCTGTACCTTCAGCGAGACCCATTTCCCTCCCCATCCCCAGAGACCTCTTGTTCTCCTGCCACATAGCTG
CCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTCATTTTCTCCTGTGGACCAGTTAGTTTTGCCTAGAA
TCCTGTTTTTCTTCTGAATTTGCAGCTGTCTCTCTGATGGGTGCCTTTTGTTCAACACAGTAAGCCCTGCTCCCTT
CCCTGCTCTAATACTACCTGTACAAAGGTTTTTTCCTTATTTTAAATAAATGTCAGACACTATT

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FIGURE 6290

MHIWTLSC TSGASWAPVTYWTDHPQPLLPTHLS SRLPANYIILPTDLRYHCHRHPH LTNRLWLLVMWTHLGGI
RAGHSPWTVIQTAGRP RSLSPSARPISSPSPETSCVPAT

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FIGURE 6291

TGAAGGCCCTCCTGGCCGGGCCCCCTCCGGCCCCGCGCGCGCTCGCTGGAGGAACCCGATTCCCTTTCCCGAGACGT
TTGACGGAGATACCGACCGACTCCCGGAGTTTCATCGTGACAGACGAGCTCCTACATGTTTCGTGGACGAGAACACGT
TCTCCAACGACGCCCTGAAGCCCAGCCCCCTCCATGCACATTTGGACGCTGTCCTGCACCTTCAGGTGCAAGCTGGG
CTCCTGTTACATACTGGACAGACCACCCACAGCCGCTGCTGCCAACCCACCTCCACTCCTCCAGACTGCCAGCCA
ACTACATCATTCTGCCCCACAGACCTACGCTACCACTGCCATCGCCATCCACCGCATCTCACCAACAGACTGTGGC
TCCTAGTGATGTGGACTCACCTCGGAGGTATCCGAGCTGGACACAGCCCCCTGGACAGTGATCCAGACAGCTGGCC
GTCCCCCAAGGAGCCTGTCACCTTCAGCGAGACCCATTTCTCCCCATCCCCAGAGACCTCTTGTTCTCCTGCCA
CATAGCTGCCAGGGCTTAAGTGTGCCTGGCAACCAAATCGAATCTCTC

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FIGURE 6292

MFVDENTFSNDALKPSPSMHIWTLSC TSGASWAPVTYWDHPQPLLP THLHSSRLPANYIILPTDLRYHCHRHP
HLTNRLWLLVMWTHLGGIRAGHSPWTVIQTAGRP RSLSPSARPISSPSPETSCVPAT

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FIGURE 6293

CGGCACGAGGACAGAATCAGGTGATGGTCCAGAATTAAGAGCTGTCACCTGTGTCATTCACTCACAAATGGAAGAA
ATGAAGAAGACTGCCATCCGGCTGCCCAAAGGCAAACAGAAGCCTATAAAGACGGAATGGAATTCGCGGTGTGTC
CTTTTACCTACTTCCAAGGGGACATCAGCAGCGTAGTGGATGAACACTTCTCCAGAGCTCTGAGCAATATCAAG
AGCCCCCAGGAATTGACCCCTCGAGTCAGAGTGAAGGTGTGATGCTGAAAAACGATGATAGCATGTCTCCAAT
CAGTGGCGTTACTCGTCTCCATGGACAAAGCCACAACCAGAAGTACCTGTCAAAACCGTGCCGCCAACTGCAAC
TTGCATGTGCCTGGTCCCATGGCTGTGAATCAGTTCTCACCGTCCCTGGCTAGGAGGGCCTCTGTTCCGGCCTGGG
GAGCTGTGGCATTCTCCTCCCTGGCGGGCACCAGCTCCTTAGAGCCTGGCTACTCTCATCCCTTCCCGCTCGG
CACCTGGTTCCAGAGCCCCAGCCTGATGGGAAACGTGAGCCTCTCCTAAGTCTCCTCCAGCAAGACAGATGCCTA
GCCCCGTCTCAGGAATCTGCCGCCAGGGAGAAATGGCAACCCTGGCCAGATAGCTGGAAGCACAGGGTTGCTCTTC
AACCTGCCTCCCGCTCAGTTCACCTATAAGAACTATATGTATCTCGTGGATCTGCCAGTACCAGCCTTCCAAT
GAACTCTTTCAGAGTTAGAGACACCTGGGAAATACTCACTTACACCACCAAACCACTGGGGCCACCCACATCGA
TACCTGCAGCATCTTTAGTCAAGTTGGAGGAGAAAGACAACACTTGGTCTAAGACACGGCAGCAAGACATCCCTG
CATATTGTTCCAGATAAAAATGAAAGCTGCTCACACCCACTTGCTCCCCAATCTGTTAAACAGCTTCGTGTCTA
GTATGAGCTCAGTACTTGCCCTGTGAAAATCCCAGAAGCCCCCGCTGTCAATGTTCCCATCCACACCCTGCTTG
CTCCTGTGTAACAGCTCAGATGATGAATAATAATAAACTGTACTTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 6329C

CTCTTTTGAGTCAGCCTGAACGGGGCCAAGGGGGCGATCGATGCCAAGGTGCACAGCCCCTCAGGAGCCCTGGA
GGAGTGCTATGTACAGAAATTGACCAAGATAAGTATGCTGTGCGCTTCATCCCTCGGGAGAATGGCGTTTACCT
GATTGACGTCAAGTTCAACGGCACCACATCCCTGGAAGCCCCTTCAAGATCCGAGTTGGGGAGCCTGGGCATGG
AGGGGACCCAGGCTTGGTGTCTGCTTACGGAGCAGGTCTGGAAGGCGGTGTCACAGGGAACCCAGCTGAGTTCGT
CGTGAACACGAGCAATGCGGGAGCTGGTGCCCTGTGCGGTGACCATTGACGGCCCCCTCCAAGGTGAAGATGGATTG
CCAGGAGTGCCCTGAGGGCTACCGCGTCACCTATACCCCCATGGCACCTGGCAGCTACCTCATCTCCATCAAGTA
CGGCGGGCCCTACCACATTGGGGGCAGCCCCTTCAAGGCCAAAGTCACAGGCCCCCGTCTCGTCAGCAACCACAG
CCTCCACGAGACATCATCAGTGTGTTGTAGACTCTCTGACCAAGGCCACCTGTGCCCCCAGCATGGGGCCCCGGG
TCCTGGGCCTGCTGACGCCAGCAAGGTGGTGGCCAAGGGCCTGGGGCTGAGCAAGGCCTACGTAGGCCAGAAGAG
CAGCTTCACAGTAGACTGCAGCAAAGCAGGCAACAACATGCTGCTGGTGGGGTTTCATGGCCCAAGGACCCCCCTG
CGAGGAGATCCTGGTGAAGCACGTGGGCAGCCGGCTCTACAGCGTGTCTACCTGCTCAAGGACAAGGGGGAGTA
CACACTGGTGGTCAAATGGGGGGACGAGCACATCCCAGGCAGCCCCTACCGCGTTGTGGTGCCCTGAGTCTGGGG
CCCGTGCCAGCCGGCAGCCCCCAAGCCTGCCCCGCTACCCAAGCAGCCCCGCCCTCTTCCCCTCAACCCCGGGCC
AGGCCGCCCTGGCCGCCCGCCTGTCACTGCAGCCGCCCTGCCCTGTGCCGTGCTGCGCTCACCTGCCTCCCCAG
CCAGCCGCTGACCTCTCGGCTTCACTTGGGCAGAGGGAGCCATTTGGTGGCGCTGCTTGTCTTCTTTGGTTCTG
GGAGGGGTGAGGGATGGGGTCCTGTACACAACCAACCCACTAGTTCTCTTCTCCAGCCAAGAGGAATAAAGTTTT
GCTTCCATTC

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FIGURE 6330B

GGGATCCCATCTTTTTAACCTCTGTTTCAGGAAGTCCTTATCTAGCTGCATATCTTCATCATATTGGTATATCCTT
TTCTGTGTTTACAGAGATGTCTTATATCTAAATCTGTCCAAGTACCTTATCAAAGTAGCAAATGAG
ACAGCAGTCTTATGCTTCCAGAAACACCCACAGGCATGTCCCATGTGAGCTGCTGCCATGAACTGTCAAGTGTGT
GTTGTCTTGTGTAATTCAGTTATTGTCCCTGGCTTCCTTACTATGGTGTAAATCATGAAGGAGTGAAACATCATAG
AAACTGTCTAGCACTTCCTTGCCAGTCTTTAGTGATCAGGAACCATAGTTGACAGTTCCAATCAGTAGCTTAAGA
AAAAACCGTGTTTGTCTCTTCTGGAATGGTTAGAAGTGAGGGAGTTTGCCCGTTCTGTTGTAGAGTCTCATAG
TTGGACTTTCTAGCATATATGTGTCCATTTCCTTATGCTGTAAAAGCAAGTCCTGCAACCAAACCTCCCATCAGCC
CAATCCCTGATCCCTGATCCCTTCCACCTGCTCTGCTGATGACCCCCCAGCTTCACTTCTGACTCTTCCCCAGG
AAGGGAAGGGGGGTCAGAAGAGAGGGTGAGTCCTCCAGAACTCTTCTCCAAGGACAGAAGGCTCCTGCCCCAT
AGTGGCCTCGAACTCCTGGCACTACCAAAGGACACTTATCCACGAGAGCGCAGCATCCGACCAGGTTGTCACTGA
GAAGATGTTTATTTTGGTCAGTTGGGTTTTATGTATTATACTTAGTCAAATGTAATGTGGCTTCTGGAATCATT
GTCCAGAGCTGCTTCCCCGTACCTGGGCGTCATCTGGTCTGGTAAGAGGAGTGCGTGGCCCCACCAGGCCCCCC
TGTCACCCATGACAGTTCAATCAGGGCCGATGGGGCAGTCGTGGTGGGAACACAGCATTTCAGCGTCACTTTA
TTTCATTTCGGGCCCCACCTGCAGCTCCCTCAAAGAGGCAGTTGCCAGCCTCTTTCCTTCCAGTTTATTCAGA
GCTGCCAGTGGGGCCTGAGGCTCCTTAGGGTTTTCTCTATTTCCTTCTTCTCCTCATTCCCTCGTCTTTCC
CAAAGGCATCACAGTCACTGCGCTTTCAGCAGGCAGCCTTGGCGGTTTATCGCCCTGGCAGGCAGGGGCCCTGC
AGCTCTCATGCTGCCCCGTGCTTGGGGTCAAGTTGACAGGAGGTTGGAGGGAAAGCCTTAAGCTGCAGGATTCTC
ACCACTGTGTCCGGCCAGTTTTGGGGTGTGACCTCAATTTCAATTTGTCTGTACTTGAACATTATGAAGATG
GGGGCCTCTTTCAGTGAATTTGTGAACAGCAGAATTGACCGACAGCTTTCAGTACCCATGGGGCTAGGTCATTA
AGGCCACATCCACAGTCTCCCCCACCCTTGTTCAGTTGTTAGTTACTACCTCCTCTCCTGACAATACTGTATGT
CGTCGAGCTCCCCCAGGCTTACCCCTCCCGGCCCTGCCTGCTGGTGGGCTTGTCTAGCCAGTGGGATTGCCGG
TCTTGACAGCTCAGTGAGCTGGAGATACTTGGTCACAGCCAGGCGCTAGCACAGCTCCCTTCTGTTGATGCTGTA
TTCCCATATCAAAGACACAGGGGACACCCAGAAACGCCACATCCCCAATCCATCAGTGCCAACTAGCCACAG
GCCCCAGCTTCTCAGTCTGCTGGATGGCGGAAGCTGCTACTCGTGAGCGCCAGTGCGGGTCAGACACAATCTCTG
TTGGGTGGCATCATTTCCAGGCCGAGCATGAACAGTGCACCTGGGACAGGGAGCAGCCCCAAATTGTACCTGC
TTCTCTGCCAGCTTTTTCATTGCTGTGACAGTGATGGCGAAAGGGTAATAACCAGACACAACTGCCAAGTTG
GGTGGAGAAAGGAGTTTCTTTAGCTGACAGAATCTCTGAATTTAAATCACTTAGTAAGCGGCTCAAGCCAGGA
GGGAGCAGAGGGATACGAGCGGAGTCCCTGCGCGGGACCATTGGAATTGGTTTAGCCCCAAGTGGAGCCTGACA
GCCAGAATCTGTGTCCCCGTCTAACCACAGCTCCTTTTCAGAGCATTCCAGTCAGGCTCTCTGGGCTGACTG
GGCCAGGGGAGGTTACAGGTACCAGTTCTTTAAGAAGATCTTTGGGCATATACATTTTATAGCCTGTGTATTGCC
CCAAATGGATTCTGTGTTTCAAGTTTACACCTGCAGATTCTAGGACCTGTGTCTTAGACTTCAGGGAGTCAGCTGT
TTCTAGAGTTCTTACCATTGGAGTGGGTCTGGAGGACCTGCCCGTGGGGGGGAGAGCCCTGCTCCCTCCGGGTC
TTCTTACTCTTCTCTCTGCTCTGACGGGATTGTTGATTCTCTCCATTTTGGTGTCTTCTCTTTTAGATATTGT
ATCAATCTTTAGAAAAGGCATAGTCTACTTGTATAAATCGTTAGGATACTGCCTCCCCCAGGGTCTAAAATTAC
ATATTAGAGGGGAAAAGCTGAACACTGAAGTCAGTTCTCAACAATTTAGAAGGAAAACCTAGAAAACATTTGGCA
GAAAATTACATTTGATGTTTTTGAATGAATACGAGCAAGCTTTTACAACAGTGCTGATCTAAAAATACTTAGCA
CTTGGCCTGAGATGCCTGGTGAGCATTACAGGCAAGGGGAATCTGGAGGTAGCCGACCTGAGGACATGGCTTCTG
AACCTGTCTTTTGGGAGTGGTATGGAAGGTGGAGCGTTTACCAGTGACCTGGAAGGCCAGCACCACCTCCTTC
CCACTCTTCTCATCTTGACAGAGCCTGCCCCAGCGCTGACGTGTGAGGAAAAACCCAGGGAACTAGGAAGGCAC
TTCTGCCTGAGGGGAGCCTGCTTGGCCACTCTGCTCTGCTCGCCTCGGATCAGCTGAGCCTTCTGAGCTGGC
CTCTCACTGCCTCCCCAAGGCCCTGCTGCCCCGTGTCAGGAGGCAGAAGGAAGCAGGTGTGAGGGCAGTGCAAG
GAGGGAGCACAAACCCAGCTCCCGCTCCGGGCTCCGACTTGTGCACAGGCAGAGCCCAGACCCTGGAGGAAATC
CTACCTTTGAATTCAAGAACATTTGGGGAATTTGGAATCTCTTTGCCCCAAACCCCATCTGTCTACCTTT
AATCAGGTCTGCTCAGCAGTGAGAGCAGATGAGGTGAAAAGGCCAAGAGGTTTGGCTCCTGCCACTGATAGCC
CCTCTCCCCGAGTGTTTGTGTGTCAAGTGGCAAAGCTGTTCTTCTGCTGACCTGATTATATCCAGTAACACA
TAGACTGTGCGCATAGGCCTGCTTTGTCTCTCTATCTGGGCTTTTGTGTTGCTTTTGTGTTTGTGTTTGTGTT
TTTCTGTCCCTTTTATTTAACGCACCGACTAGACACACAAAGCAGTTGAATTTTATATATATCTGTATATTG
CACAATTATAAACTCATTTTGTGCTTGTGGCTCCACACACACAAAAAAGACCTGTAAAAATTATACCTGTTGCTTA

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FIGURE 6331

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEGSGSAPAVP
EASASPKQRRSIIRD RGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSKVELIAYFEKVGDTSL
DPNDFDFTVTGRGSPSRREQPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATSEGVQVKRVLEKSPGKLLVKMP
FQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRKPGSVVAAAAAEAKKAVKESSIRSVQETV
LPIKKRKTRETVSIEVKEVVKPLLVLSTLGEKSGKGLKTCKSPGRKSKESSPKGRSSSASSPPKKEHHHHHHHSES
PKAPVPLLPPLPPPPPEPESESDPTSPPEPQDLSSSVCKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKY
KHRGEGERKDIVSSSMRPNREEPVDSRTPVTERVS

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FIGURE 6332

CGCGGACCCGGCCGGCCAGGCCCGCGCCCGCCGCGGCCCTGAGAGGCCCGGCAGGTCCCGGCCCGGGCGGGCGGC
AGCCATGGCCCGGGGGGCCGGGGCCGGGGGAGCCCGCAGCCCCGGCGGCCAGCACTTCTTGACGAGGTGCCCGCC
CTGGGTCATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCCGCCGCCCTGAT
CGTGCGCGACCAAGACCGAGCTGCGGGCTGTGCGAGCGCTCCGGGCGAGCGCACGGCCAGCGTCTGTGGCCCTGGAT
CAACCGCAACGCCCCTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCCGTGCGCGGGACATCAT
CACAGCCTGGCACCCCTCCCGCCCCGCTTCCGTCCCCAGGCACCACTGCCCGAGGCCAGCAGCATCCCTGCACC
CGCCGAGGCCGAGGCCTGGAGCCCCCGGAAGTTGCCATCCTCAGCCTCCACCTTCTCTCCCCAGCTTTTCCAGG
CTCCCAGACCCATTACAGGGCCTGAGCTCGGCCTGGTTCCAAGCCCTGCTTCCCTGTGGCCTCCACCGCCATCTCC
AGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGTGTCCTCTCTGCAGGGAGCCCGCCCTCTCCGTTTTG
CTGGCCCCCTCTGTGAGATTTCCCGGGGCACCCACAACCTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGCCCTTTGG
GTGCGTGTACCGGGCGGTGATGAGGAACACGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTG
GACTGCAGTGAAGCAGAGCTTCTGACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCCAAACATTGTGGACTT
TGCTGGCTACTGTGCTCAGAACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCCAACGGCTCCCTGGAGGACCG
TCTCCACTGCCAGACCCAGGCCTGCCACCTCTCTCTGGCCTCAGCGACTGGACATCCTTCTGGGTACAGCCCG
GGCAATTCAAGTTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCCAACGTCCTTCTGGA
TGAGAGGCTGACACCCAAGCTGGGAGACTTTGGCCTGGCCCGGTTTCAGCCGCTTTCGCCGGTCCAGCCCCAGCCA
GAGCAGCATGGTGGCCCGGACACAGACAGTGGGGGCACCTGGCCTACCTGCCCGAGGAGTACATCAAGACGGG
AAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGGTGGTAGTGCTAGAGACCTGGCTGGTCAGAGGGCTGT
GAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGGAAAGAGGAGGCTGAGGAGGCTGGAGTGGCTTT
GAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCGCTGGGCTGCTCCCATCGCCATGCAGATCTA
CAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGCTGGGCTGGGCCAGCTGGCCTGCTG
CTGCCTGCACCGCCGGGCCAAAAGGAGGCCCTCTATGACCCAGGTGTACGAGAGGCTAGAGAAGCTGCAGGCAGT
GGTGGCGGGGGTGCCCGGCATTTGGAGGCCGCCAGCTGCATCCCCCTTCCCCGAGGAGAACTCCTACGTGTC
CAGCACTGGCAGAGCCACAGTGGGGCTGCTCCATGGCAGCCCTGGCAGCGCCATCAGGAGCCAGTGGCCAGGC
AGCAGAGCAGCTGCAGAGAGGCCCAACCAAGCCGTTGGAGAGTGACGAGAGCCTAGGCGGCCCTCTCTGCTGCCCT
GCGCTCCTGGCACTTGACTCCAAGCTGCCCTCTGGACCCAGCACCCCTCAGGGAGGCCGGCTGTCTCAGGGGA
CACGGCAGGAGAAATCGAGCTGGGGGAGTGGCCAGGATCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAG
CTCTGCATCATCGTGCAGAGCCACCGCAGATTATCATCAACCTGCCCGACAGAAGATGGTCCAGAGCTGGC
CCTGTACGAGGATGGGGCCCTGGACAGCCTGCAGTGTGCTGCTCCAGCTCCCTCCAGGCTTGGGCTTGGGAACA
GGACAGCAGGGGCCCGAAGAAAGTGATGAATTTCAAGAGCTGATGTGTTACCTGGGCAGATCCCCCAAATCCGG
AAGTCAAAGTTCTCATGGTCAGAAGTTCTCATGGTGCACGAGTCTCAGCACTCTGCCGCGAGTGGGGGTGGGGG
CCCATGCCCGCGGGGGAGAGAAGGAGGTGGCCCTGCTGTTCTAGGCTCTGTGGGCATAGGCAGGCAGAGTGGAAAC
CCTGCCTCCATGCCAGCATCTGGGGGCAAGGAAGGCTGGCATCATCCAGTGAGGAGGCTGGCGCATGTTGGGAGG
CTGCTGGCTGCACAGACCCGTGAGGGGAGGAGAGGGGCTGCTGTGAGGGGTGTGGAGTAGGGAGCTGGCTCCCC
TGAGAGCCATGCAGGGCGTCTGCAGCCAGGCCTCTGGCAGCAGCTCTTTGCCCATCTCTTTGGACAGTGGCCAC
CCTGCACAATGGGGCCGACGAGGCCTAGGGCCCTCTACCTGCTTACAATTTGGAAAAGTGTGGCCGGGTGCGGT
GGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGCAGGAGGATCGCTGGAGCCAGTAGGTCAAGACCAG
CCAGGGCAACATGATGAGACCCTGTCTCTGCCAAAAATTTTTAACTATTAGCCTGGCGTGGTAGCGCACGCC
TGTGGTCCCAGCTGCTGGGGAGGCTGAAGTAGGAGGATCATTTATGCTTGGGAGGTCGAGGCTGCAGTGAGTCAT
GATTGTATGACTGCACTCCAGCCTGGGTGACAGAGCAAGACCCTGTTTCAAAAAGAAAAACCCTGGGAAAAGTGA
AGTATGGCTGTAAGTCTCATGGTTTCAGTCTTAGCAAGAAGCGAGAATTCTGAGATCCTCCAGAAAGTCGAGCAGC
ACCCACCTCCAACCTCGGGCCAGTGTCTTCAGGCTTTACTGGGGACCTGCGAGCTGGCCTAATGTGGTGGCCTGC
AAGCCAGGCCATCCCTGGGCGCCACAGACGAGCTCCGAGCCAGGTGAGGCTTCGGAGGGCCACAAGCTCAGCCTCA
GGCCCAGGCACTGATTGTGGCAGAGGGGCCACTACCCAAGGTCTAGCTAGGCCCCAAGACCTAGTTACCCAGACAG
TGAGAAGCCCTGGAAGGCAGAAAAGTTGGGAGCATGGCAGACAGGGAAGGGAAACATTTTCAGGGAAAAGACAT
GTATCACATGTCTTCAAGCAAGTCAGGTTTCATGTAACCGAGTGTCTCTTGCCTGTCCAAAAGTAGCCAGG
GCTGTAGCACAGGCTTACAGTGATTTTGTGTTACGCCGTGAGTCACACTACATGCCCCCGTGAAGCTGGGCATT
GGTGACGTCCAGGTTGTCCTTGAGTAATAAAAACGTATGTTCCCTAAAAA

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FIGURE 6333

MAGGPGPGEPAPGAQHFLYEVPPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRRLCERSGQRTASVLWPWIN
RNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSASTFLSPAFFPGS
QTHSGPELGLVPSPASLWPPPPSPAPSSSTKPGPESSVSLQGARPSPF CWPLCEISRGTHNFSEELKIGEGGFGC
VYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQNGFYCLVYGFLPNGSLEDRL
HCQTQACPPLSWPQRDLILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDERLTPKLGDFGLARFSRFAGSSPSQS
SMVARTQTVRGTLAYLPEEYIKTGRLAVDIDTF SFGVVVLETLAQRAVKTHGARTKYLKDLVEEEAEEAGVALR
STQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPELGLGLGQLACCLHRRAKRRPPMTQVYERLEKLQAVV
AGVPGHLEAASCIPPSQENSYSSTGRAHSGAAPWQPLAAPSGASAQAAEQLRGPNQPVESDES LGGLSAAALR
SWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRPTAVEGLALGSSASSSSEPPQIIINPARQKMQKLAL
YEDGALDSLQLLSSSSLPGLGLEQDRQGPEESDEFQS

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FIGURE 6334A

GCGCGGTGCCGCCGGGAAAGATCGTCGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGAAGGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACAGTGCAGCCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGCACCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCACTTCCCAGGCACCAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGTCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGAGGGGAGCCATTGGTCTGGAGTGCATCGCCGAGGGCT
TCCCCAGCCCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCTGCAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTACTGG
GCAGTGGCCGCGCATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCGCTGGACTGCCAAGTCCAGGGCAGGCCCCAACCCAGAGGTACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACAGAAAGTACCGGATTACAGCGTGGCGCCCTGATCCTGAGCAACG
TGCAGCCCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGCTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCCATGCCAATGGGACCTTGGGCATTTCGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTCGCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGACAGCCCATCACCTGGCGTGGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCATCCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGACGACAGGTCGCGGTGCTCTGGAGTCTGCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCAGACCTCTACCACCTCAAGCTGTGCGCCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTCATACGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGGCGTGTGGTCAAGTGGCGGCCGGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGCCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCCTTTAACGGGCGAGGATCGGGGCCCCGACGAGTTACCTTCAGCAGCCAGAGGGAGTGCCTG
GCCACCCCGAGGCGTTGCACCTGGAGTGCCAGTGAACACCAGCCTGCTGCTGCGCTGGCAGCCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACTATGGCCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAACTACAGTGTGCTCTCTGGGTCCCCAAGGAGGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTGTGAGTGCCATCATCTCTGCTCCTGCTCCTGCTCATCTCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGGTCCCTGGAGAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCAT

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FIGURE 6334B

CGCTCAACGGGGACATCAAGCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGT
TCAACGAGGATGGTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCT
CAGGGGCCACTTCCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCCCT
GGCCTTGGGATCCAGGCCCTCCCTCTCCAGCAGGCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTG
CCTCGGATCCCCCTTCCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCCTGGGCACACGC
TGCTCTGCCCCAGCTTGGGCAGATCTCCACATGCCAGGGGCCTTTGGGTGCTGTTTTGCCAGCCCATTGTTGGCA
GAGAGGCTGTGGTTTTGGGGGAGAAGAAGTAGGGGTGGCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCC
TGACTGGGGGCAGACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAG
CCAGCCTGGCTGGGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCA
ACCGGGATGGGAGCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCACTCC
CAGCATCGCACTCTGGCAGCACCGCCTCTTCCCGCCGCCAGCCCACCCCATGGCCGGCTTTCAGGAGCTCCATA
CACACGCTGCCTTCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACAC
CTCCTCCCACTGCCCCACTGGCCGGC

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FIGURE 6335

MVVALRYVWPLLLCSPCLLIQIP EEEYEGHHVMEPPVITEQSPRRLVVFP TDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFOGIYRCFASNKLGTAMSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTSDNHSDYICHAHFPGTRTIIQKEPI
DLRVKATNSMIDRKPRLLFFTNSSSH LVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRVTYQNHNKTLLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPOPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLL ANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRD LQANDTG RYFCLAANDQNNVTIMANLKV KDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYS DQGNYS CVASTE LDDVV
ESRAQLLVGSGPGVPRLVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGE GNETTNMVI TWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQE QIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGGEPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTFSTPEGVPGHPEALHLECQSNISLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNL RDP EL
RTHNLTDLSPHLRYRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMFRHQMAVKINGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYRSLESDNEEKAFGSSQPSLNGDIK
PLGSDDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6336A

GCGCGGTGCCGCCGGGAAAGATGGTCTGTGGCGCTGCGGTACGTGTGGCCTCTCCTCCTCTGCAGCCCCCTGCCTGC
TTATCCAGATCCCCGAGGAATATGAAGGACACCATGTGATGGAGCCACCTGTCATCACGGAACAGTCTCCACGGC
GCCTGGTTGTCTTCCCCACAGATGACATCAGCCTCAAGTGTGAGGCCAGTGGCAAGCCCCGAAGTGCAGTTCCGCT
GGACGAGGGATGGTGTCCACTTCAAACCCAAGGAAGAGCTGGGTGTGACCGTGTACCAGTGCCTCCACTCTGGCT
CCTTACCATCACGGGCAACAACAGCAACTTTGCTCAGAGGTTCCAGGGCATCTACCGCTGCTTTGCCAGCAATA
AGCTGGGACCCGCCATGTCCCATGAGATCCGGCTCATGGCCGAGGGTGGCCCCAAGTGGCCAAAGGAGACAGTGA
AGCCCGTGGAGGTGGAGGAAGGGGAGTCAGTGGTTCTGCCTTGCAACCCTCCCCAAGTGCAGAGCCTCTCCGGA
TCTACTGGATGAACAGCAAGATCTTGCACATCAAGCAGGACGAGCGGGTGACGATGGGCCAGAACGGCAACCTCT
ACTTTGCCAATGTGCTCACCTCCGACAACCACTCAGACTACATCTGCCACGCCCCTTCCCAGGCACCAGGACCA
TCATTGAGAAGGAACCCATTGACCTCCGGGTCAAGGCCACCAACAGCATGATTGACAGGAAGCCGCGCTGCTCT
TCCCCACCAACTCCAGCAGCCACCTGGTGGCCTTGAGGGGAGCCATTGGTCTTGGAGTGCATCGCCGAGGGCT
TCCCCACGCCACCATCAAATGGCTGCGCCCCAGTGGCCCCATGCCAGCCGACCGTGTACCTACCAGAACCACA
ACAAGACCTTGAGCTGCTGAAAGTGGGCGAGGAGGATGATGGCGAGTACCGCTGCCTGGCCGAGAACTCACTGG
GCAGTGGCCGGCATGCGTACTATGTACCGTGGAGGCTGCCCCGTACTGGCTGCACAAGCCCCAGAGCCATCTAT
ATGGGCCAGGAGAGACTGCCCCCTGGACTGCCAAGTCCAGGGCAGGCCCAACCAGAGGTCACCTGGAGAATCA
ACGGGATCCCTGTGGAGGAGCTGGCCAAAGACCAGAAGTACCGGATTACGCTGGCGCCCTGATCTGAGCAACG
TGCAGCCAGTGACACAATGGTGACCCAATGTGAGGCCCGCAACCGGCACGGGCTCTTGTGGCCAATGCCTACA
TCTACGTTGTCCAGCTGCCAGCCAAGATCCTGACTGCGGACAATCAGACGTACATGGCTGTCCAGGGCAGCACTG
CCTACCTTCTGTGCAAGGCCTTCGGAGCGCCTGTGCCAGTGTTCAGTGGCTGGACGAGGATGGGACAACAGTGC
TTCAGGACGAACGCTTCTTCCCTATGCCAATGGGACCCTGGGCATTGAGACCTCCAGGCCAATGACACCGGAC
GCTACTTCTGCCTGGCTGCCAATGACCAAAACAATGTTACCATCATGGCTAACCTGAAGGTTAAAGATGCAACTC
AGATCACTCAGGGGCCCCGAGCACAATCGAGAAGAAAGGTTCCAGGGTGACCTTCACGTGCCAGGCCTCCTTTG
ACCCCTCCTTGAGCCAGCATCACCTGGCGTGGGACGGTCGAGACCTCCAGGAGCTTGGGGACAGTGACAAGT
ACTTCATAGAGGATGGGCGCCTGGTCACTCACAGCCTGGACTACAGCGACCAGGGCAACTACAGCTGCGTGGCCA
GTACCGAACTGGATGTGGTGGAGAGTAGGGCACAGCTCTTGGTGGTGGGGAGCCCTGGGCCGGTGCCACGGCTGG
TGCTGTCCGACCTGCACCTGCTGACGCAGAGCCAGGTGCGCGTGTCTGGAGTCTTGCAGAAGACCACAATGCCC
CCATTGAGAAATATGACATTGAATTTGAGGACAAGGAAATGGCGCCTGAAAAATGGTACAGTCTGGGCAAGGTTT
CAGGGAACCCAGACCTCTACCACCCTCAAGCTGTGCGCTATGTCCACTACACCTTTAGGGTTACTGCCATAAACA
AATATGGCCCGGGGAGCCAGCCCGGTCTCTGAGACTGTGGTCACACCTGAGGCAGCCCCAGAGAAGAACCCTG
TGGATGTGAAGGGGAAGGAAATGAGACCACCAATATGGTCATCAGTGGAAGCCGCTCCGGTGGATGGACTGGA
ACGCCCCCAGGTTTCACTACCGCGTGCAGTGGCGCCTCAGGGGACACGAGGGCCCTGGCAGGAGCAGATTGTCA
GCGACCCCTTCTGGTGGTGTCCAACACGTCCACCTTCGTGCCCTATGAGATCAAAGTCCAGGCCGTCAACAGCC
AGGGCAAGGGACCAGAGCCCCAGGTCACTATCGGCTACTCTGGAGAGGACTACCCCCAGGCAATCCCTGAGCTGG
AAGGCATTGAAATCCTCAACTCAAGTGCCGTGCTGGTCAAGTGGCGGCCGGTGGACCTGGCCAGGTCAAGGGCC
ACCTCCGCGGATACAATGTGACGTACTGGAGGGAGGGCAGTCAGAGGAAGCACAGCAAGAGACATATCCACAAAG
ACCATGTGGTGGTGGCCGCCAACACCACAGTGTATCCTCAGTGGCTTGCGGCCCTATAGCTCCTACCACCTGG
AGGTGCAGGCCTTTAACGGGCGAGGATCGGGGCCCCGACCGAGTTACCTTCAGCACCACAGAGGGAGTGCCTG
GCCACCCGAGGCGTTGCACCTGGAGTGCCAGTGCAGACACAGCCTGCTGCTGCGCTGGCAGCCCCACTCAGCC
ACAACGGCGTGTCTACCGGCTACGTGCTCTCTACCACCCCTGGATGAGGGGGGCAAGGGGCAACTGTCTTCA
ACCTTCGGGACCCCGAATTCGGACACACAACCTGACCGATCTCAGCCCCACCTGCGGTACCGCTTCCAGCTTC
AGGCCACCACCAAGAGGGGCCCTGGTGAAGCCATCGTACGGGAAGGAGGCACATGCGCTTGTCTGGGATCTCAG
ATTTTGGCAACATCTCAGCCACAGCGGTGAAAACTACAGTGTGCTCTCCTGGGTCCCCAAGGAGGCCAGTGCA
ACTTCAGGTTCCATATCTTGTTCAAAGCCTTGGGAGAAGAGAAGGGTGGGGCTTCCCTTTCGCCACAGTATGTCA
GCTACAACCAGAGCTCCTACACGCAGTGGGACCTGCAGCCTGACACTGACTACGAGATCCACTTGTTTAAGGAGA
GGATGTTCCGGCACCAATGGCTGTGAAGACCAATGGCACAGGCCGCGTGAGGCTCCCTCCTGCTGGCTTCGCCA
CTGAGGGCTGGTTCATCGGCTTGTGAGTGCCATCATCCTCCTGCTCCTGCTCCTGCTCATCCTGCTTCATCA
AGCGCAGCAAGGGCGGCAATACTCAGTGAAGGATAAGGAGGACACCCAGGTGGACTCTGAGGCCGACCGATGA
AAGATGAGACCTTCGGCGAGTACAGTGACAACGAGGAGAAGGCCTTTGGCAGCAGCCAGCCATCGTCAACGGGG

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FIGURE 6336B

ACATCAAGCCCCCTGGGCAGTGACGACAGCCTGGCCGATTATGGGGGCAGCGTGGATGTTTCAGTTCAACGAGGATG
GTTTCGTTTCATTGGCCAGTACAGTGGCAAGAAGGAGAAGGAGGCGGCAGGGGGCAATGACAGCTCAGGGGCCACTT
CCCCCATCAACCCTGCCGTGGCCCTAGAATAGTGGAGTCCAGGACAGGAGATGCTGTGCCCTGGCCTTGGGATC
CAGGCCCCCTCCCTCTCCAGCAGGCCCCATGGGAGGCTGGAGTTGGGGCAGAGGAGAACTTGCTGCCTCGGATCCCC
TTCCTACCACCCGGTCCCCACTTTATTGCCAAAACCCAGCTGCACCCCTTCCTGGGCACACGCTGCTCTGCCCCA
GCTTGGGCAGATCTCCCATATGCCAGGGGCCCTTTGGGTGCTGTTTTGCCAGCCCATTGGGCAGAGAGGCTGTGG
TTTGGGGGAGAAGAAGTAGGGGTGGCCCCGAAAGGGTCTCCGAAATGCTGTCTTTCTTGCTCCCTGACTGGGGGCA
GACATGGTGGGGTCTCCTCAGGACCAGGGTTGGCACCTTCCCCCTCCCCCAGCCACTCCCCAGCCAGCCTGGCTG
GGACTGGGAACAGAACTCGGTGTCCCCACCATCTGCTGTCTTTTCTTTGCCATCTCTGCTCCAACCGGGATGGGA
GCCGGGCAAACTGGCCGCGGGGGCAGGGGAGGCCATCTGGAGAGCCCAGAGTCCCCCCTCCAGCATCGCACT
CTGGCAGCACCGCCTCTTCCCGCCGCCAGCCACCCCATGGCCGGCTTTCAGGAGCTCCATACACACGCTGCCT
TCGGTACCCACCACACAACATCCAAGTGGCCTCCGTCACTACCTGGCTGCGGGGCGGGCACACCTCCTCCCACTG
CCCACTGGCCGGC

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FIGURE 6337

MVVALRYVWPLLLCSPCLLIQIPEEYEGHHVMEPPVITEQSPRRLVVFPTDDISLKCEASGKPEVQFRWTRDGVH
FKPKEELGVTVYQSPHSGSFTITGNNSNFAQRFGIYRCFASNKLGTA MSHEIRLMAEGAPKWPKETVKPVEVEE
GESVVLPCNPPPSAEPLRIYWMNSKILHIKQDERVTMGQNGNLYFANVLTS DNHSDYICHAHFP GTRTIIQKEPI
DLRVKATNSMIDRKPRLLFPTNSSSHLVALQGQPLVLECIAEGFPTPTIKWLRPSGMPADRVTYQNHNKTLQLL
KVGEEDDGEYRCLAENSLGSARHAYYVTVEAAPYWLHKPQSHLYGPGETARLDCQVQGRPQPEVTWRINGIPVEE
LAKDQKYRIQRGALILSNVQPSDTMVTQCEARNRHGLLLANAYIYVVQLPAKILTADNQTYMAVQGSTAYLLCKA
FGAPVPSVQWLDEDGTTVLQDERFFPYANGTLGIRD LQANDTGRYFCLAANDQNNVTIMANLKV KDATQITQGPR
STIEKKGSRVTFTCQASFDPSLQPSITWRGDGRDLQELGDS DKYFIEDGRLVIHSLDYS DQGNYS CVASTELDVV
ESRAQLLVVGGSPGPVPRVLSDLHLLTQSQVRVSWSPAEDHNAPIEKYDIEFEDKEMAPEKWYSLGKVPGNQTST
TLKLSPYVHYTFRVTAINKYGPGEPSPVSETVVTPEAAPEKNPVDVKGE GNETTNMVITWKPLRWMDWNAPQVQY
RVQWRPQGTRGPWQEQIVSDPFLVVSNTSTFVPYEIKVQAVNSQKGPEPQVTIGYSGEDYPQAIPELEGIEILN
SSAVLVKWRPVDLAQVKGHLRGYNVTYWREGSQRKHSKRHIHKDHVVVPANTTSVILSGLRPYSSYHLEVQAFNG
RGSGPASEFTTFSTPEGVP GHPEALHLECQSN TSLLLRWQPPLSHNGVLTGYVLSYHPLDEGGKGQLSFNLRDPEL
RTHNLTDLSPHLR YRFQLQATTKEGPGEAIVREGGTMALSGISDFGNISATAGENYSVVS WVPKEGQC NFRFHIL
FKALGEEKGGASLSPQYVSYNQSSYTQWDLQPD TDYEIHLFKERMF RHQMAVKTNGTGRVRLPPAGFATEGWFIG
FVSAIILLLLVLLILCFIKRSKGGKYSVKDKEDTQVDSEARPMKDETFGEYSDNEEKAFGSSQPSLNGDIKPLGS
DDSLADYGGSDVQFNEDGSFIGQYSGKKEKEAAGGNDSSGATSPINPAVALE

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FIGURE 6338

TCGTGTTTCATGGGAGCTCGTTTTCTTTTCCTCTAGGCAGAGAAGAGGCGATGGCGGCGATGGCATCTCTCGGCGC
CCTGGCGCTGCTCCTGCTGTCCAGCCTCTCCCGCTGCTCAGCCGAGGCCTGCCTGGAGCCCCAGATCACCCCTTC
CTACTACACCACCTTCTGACGCTGTCAATTCCACTGAGACCGTCTTCATTGTGGAGATCTCCCTGACATGCAAGAA
CAGGGTCCAGAACATGGCTCTCTATGCTGACGTCGGTGGAACAAATTCCCTGTCACTCGAGGCCAGGATGTGGG
GCGTTATCAGGTGTCCTGGAGCCTGGACCACAAGAGCGCCACGCAGGCACCTATGAGGTTAGATTCTTCGACGA
GGAGTCCTACAGCCTCCTCAGGAAGGCTCAGAGGAATAACGAGGACATTTCCATCATCCCGCCTCTGTTTACAGT
CAGCGTGGACCATCGGGGCACTTGGAACGGGCCCTGGGTGTCCACTGAGGTGCTGGCTGCGGCGATCGGCCTTGT
GATCTACTACTTGGCCTTCAGTGCGAAGAGCCACATCCAGGCCTGAGGGCGGCACCCCAGCCCTGCCCTTGCTTC
CTTCAATAAACATCACAGGACCTGGGACTGCACAGGAAAAAA

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FIGURE 6339

MAAMASLGALALLLLSSLSRCSAEACLEPQITPSYYTTSDAVISTETVFIVEISLTCKNRVQNMALYADVGGKQF
PVTRGQDVGRYQVSWSLDHKSAHAGTYEVRFFDEESYSLLRKAQRNNE DISIIPPLFTVSDHRGTWNGPWVSTE
VLAAAIGLVIYYLAFSAKSHIQA

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FIGURE 6340

GGGCGGGGGTTCGCGGTCCCCCTCAACATGGCGGCAGCGGTGCTCTAGGCGCCGGAAGGGGGCGTGAATCGGTG
CGACCGCGCGCGTTCGCGAGTACCGGGTCCGCGCCTGTCCCCGAAACTTCGCAACCCGTCGAACTCTCGCGAGAGC
GTATCTGCGTGTCTGGGACGTGCGGAGGCTCTCACTTTCCGTCATGGCGCTGAAGGTAGCGACCGTCGCCGGCAGC
GCCGCGAAGGCGGTGCTCGGGCCAGCCCTTCTCTGCCGTCCCTGGGAGGTTCTAGGCGCCACGAGGTCCCTTCG
AGGAACATCTTTTCAGAACAAACAATTCTCTCCGTCCGCTAAGTATGGCGGGCGGCACACGGTGACCATGATCCCA
GGGGATGGCATCGGGCCAGAGCTCATGCTGCATGTCAAGTCCGTCCTCAGGCACGCATGTGTACCAGTGGACTTT
GAAGAGGTGCACGTGAGTTCCAATGCTGATGAAGAGGACATTGCAATGCCATCATGGCCATCCGCCGGAACCGC
GTGGCCCTGAAGGGCAACATCGAAACCAACCATAACCTGCCACCGTCGCAACAAATCTCGAAACAACATCCTTCGC
ACCAGCCTGGACCTCTATGCCAACGTTCATCCACTGTAAGAGCCTTCCAGGCGTGGTGACCCGGCACAAGGACATA
GACATCCTCATTGTCCGGGAGAACACAGAGGGCGAGTACAGCAGCCTGGAGCATGAGAGTGTGGCGGGAGTGGTG
GAGAGCCTGAAGATCATCACCAAGGCCAAGTCCCTGCGCATTGCCGAGTATGCCTTCAAGCTGGCGCAGGAGAGC
GGGCGCAAGAAAGTGACGGCCGTGCACAAGGCCAACATCATGAAACTGGGCGATGGGCTTTTCTCCAGTGCTGC
AGGGAGGTGGCAGCCCGCTACCTCAGATCACCTTCGAGAACATGATTGTGGATAACACCACCATGCAGCTGGTG
TCCCGGCCCCAGCAGTTTGATGTCATGGTGATGCCCAATCTCTATGGCAACATCGTCAACAATGTCTGCGCGGGA
CTGGTCGGGGGGCCAGGCCTTGTGGCTGGGGCCAACTATGGCCATGTGTACGCGGTGTTTGAAACAGCTACGAGG
AACACCGGCAAGAGTATCGCCAATAAGAACATCGCCAACCCACGGCCACCCTGCTGGCCAGCTGCATGATGCTG
GACCACCTCAAGCTGCACTCCTATGCCACCTCCATCCGTAAGGCTGTCTGGCATCCATGGACAATGAGAATATG
CACACTCCGGACATCGGGGGCCAGGGCACAACATCTGAAGCCATCCAGGACGTCATCCGCCACATCCGCGTCATC
AACGGCCGGGCGTGGAGGCCTAGGCTGGCCCTAGGACCTTCTTGGTTTGCTCCTTGGATTCCCCTTCCACTCC
AGCACCCAGCCAGCCTGGTACGCAGATCCCAGAATAAAGCACCTTCTCCCTAGAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 6341

MALKVATVAGSAAKAVLGPALLCRPWEVLGAHEVPSRNIFSEQTIPPSAKYGGRHTVTMIPGDGIGPELMLHVKS
VFRHACVPVDFEEVHVSSNADEEDIRNAIMAIRRNRVALKGNIETNHNLPSSHKSRNNILRTSLDLYANVIHCKS
LPGVVTRHKDIDILIVRENTEGEYSSLEHESVAGVVESLKIIITKAKSLRIA EYAFKLAQESGRKKVTAVHKANIM
KLG DGLFLQCCREVAARYPQITFENMIVDNTTMQLVSRPQQFDVMVMPNLYGNIVNNVCAGLVGGPGLVAGANYG
HVVAVFETATRNTGKSIANKNIANPTATLLASCMMLDHLKLHSYATSIRKAVLASMDNENMHTPDIGGQGTSEA
IQDVIRHIRVINGRAVEA

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FIGURE 6342A

GCGGACGGACGCGCCTGGTCCCCGGGGAGGGGCGCCACCGGGGGAGGAGGAGGAGGAGAAGGTGGAGAGGAAGA
GACGCCCCCTCTGCCCCGAGACCTCTCAAGGCCCTGACCTCAGGGGGCCAGGGCACTGACAGGACAGGAGAGCCAAG
TTCTCTCACTTGGGCTGCCCGAAGAGGCCGCGACCTTGGAGGGCCCTGAGCCACCGCACAGGGGGCCCCAGCAC
CACCCCGGGGGCCTAAAGCGACAGTCTCAGGGGCCATCGCAAGGTTTCCAGTTGCCTAGACAACAGGCCAGGGT
CAGAGCAACAATCCTTCCAGCCACCTGCCTCAACTGCTGCCCCAGGCACAGCCCCAGTCCCTACGCGGCAGCCA
GCCCCAGGTGACATGCCGTGCTCTCCAGGCCCCGGCCCTGGCGGGGGAACACGCTGAAGCGCACGGCCGTGCTCC
TGGCCCTCGCGGCCATATGGAGCCCAAAAGTCTACCCCTTGGTGCGCCAGTGCCTGGCCCCGGCCAGGGGTCTTC
AGGCGCCCGCGGGGAGCCACGCAGGAGGCCCTCCGGGGTTCGCGGCGGCCAAAGCTGGCATGAACCGGGTATTCC
TGCAGCGGCTCCTGTGGCTCCTGCGGCTGCTGTTCCCCCGGGTCTGTGCGGGGAGACGGGGCTGCTGGCCCTGC
ACTCGGCCGCTTGGTGAGCCGCACCTTCTGTGCGGTGTATGTGGCCCGCCTGGACGGAAGGCTGGCCCGCTGCA
TCGTCCGCAAGGACCCGCGGGCTTTTGGCTGGCAGCTGCTGCAGTGGCTCCTCATCGCCCTCCCTGCTACCTTCG
TCAACAGTGCCATCCGTTACCTGGAGGGCCAATGGCCCTGTGTTCCGCAGCCGTCTGGTGGCCACGCCTACC
GCCTCTACTTCTCCAGCAGACCTACTACCGGGTCAGCAACATGGACGGGCGGCTTCGCAACCCTGACCAGTCTC
TGACGGAGGACGTGGTGGCCTTTGCGGCCTCTGTGGCCACCTCTACTCCAACCTGACCAAGCCACTCCTGGACG
TGGCTGTGACTTCTACACCTGCTTCGGGCGGCCCGCTCCCGTGGAGCCGGCACAGCCTGGCCCTCGGCCATCG
CCGGCCTCGTGGTGTTCCTCACGGCCAACGTGCTGCGGGCCTTCTCGCCCAAGTTCCGGGAGCTGGTGGCAGAGG
AGGCGCGCGGAAGGGGGAGCTGCGCTACATGCACTCGCGTGTGGTGGCCAACCTCGGAGGAGATCGCCTTCTATG
GGGGCCATGAGGTGGAGCTGGCCCTGCTACAGCGCTCCTACCAGGACCTGGCCTCGCAGATCAACCTCATCCTTC
TGGAACGCTGTGGTATGTTATGCTGGAGCAGTTCCTCATGAAGTATGTGTGGAGCGCCTCGGGCCTGCTCATGG
TGGCTGTCCCATCATCACTGCCACTGGCTACTCAGAGTCAGATGCAGAGGCCGTGAAGAAGGCAGCCTTGGAAA
AGAAGGAGGAGGAGCTGGTGAGCGAGCGCACAGAAGCCTTCACTATTGCCCGCAACCTCCTGACAGCGGCTGCAG
ATGCCATTGAGCGGATCATGTGCTCGTACAAGGAGGTGACGGAGCTGGCTGGCTACACAGCCCGGGTGCACGAGA
TGTTCCAGGTATTTGAAGATGTTACAGCGCTGTCACTTCAAGAGGCCCCAGGGAGCTAGAGGACGCTCAGGCGGGGT
CTGGGACCATAGGCCGGTCTGGTGTCCGTGTGGAGGGCCCCCTGAAGATCCGAGGCCAGGTGGTGGATGTGGAAC
AGGGGATCATCTGCGAGAACATCCCCATCGTACGCCCTCAGGAGAGGTGGTGGTGGCCAGCCTCAACATCAGGG
TGGAGGATCATGCACTGCTCATCAGGCCCAATGGCTGCGGCAAGAGCTCCCTGTTCCGGATCCTGGGTG
GGCTCTGGGCCCATGACGTACGGTGGTGTGCTACAAAGCCCCACCCAGCGCATGTTCTACATCCCGCAGAGGCCCT
ACATGTCTGTGGGCTCCCTGCGTGACCAAGTGTGCTACCCGAGCTCAGTGGAGGACATGCAAAAGGAGGGTACT
CGGAGCAGGACCTGGAAGCCATCCTGGACGTGCTGCACCTGCACCACATCCTGCAGCGGGAGGGAGGTGGAGG
CTATGTGTGACTGGAAGGACGTCTGTGCGGGTGGCGAGAAGCAGAGAATCGGCATGGCCCGCATGTTCTACCACA
GGCCCAAGTACGCCCTCCTGGATGAATGCACCAGCGCCGTGAGCATCGACGTGGAAGGCAAGATCTTCCAGGCGG
CCAAGGACGCGGGCATTGCCCTGCTCTCCATCACCCACCGGCCCTCCCTGTGGAAATACCACACACACTTGCTAC
AGTTCGATGGGGAGGGCGGCTGGAAGTTCGAGAAGCTGGACTCAGCTGCCCGCCTGAGCCTGACGGAGGAGAAGC
AGCGGCTGGAGCAGCAGCTGGCGGGCATTCCCAAGATGCAGCGGCGCCTCCAGGAGCTCTGCCAGATCCTGGCGG
AGGCCGTGGCCCCAGCGCATGTGCCGGCACCTAGCCCGCAAGGCCCTGGTGGCCTCCAGGGTGCCTCCACCTGAC
ACAACCGTCCCCGGCCCCCTGCCCCGCCCCCAAGCTCGGATCACATGAAGGAGACAGCAGCACCCACCCATGCACG
CACCCCGCCCCCTGCATGCCTGGCCCCCTCCTCCTAGAAAACCTTCCCGCCCTCGGGAAAGTAGATGTGGAGGGTG
GCGCCCTGCGTAACCTCGCCCTGTCCCTCCCACTCCCTGGGGGCGCTGTTCCACAGTGACTGGGCCCTGTCCAG
GGCAGTGAGTCTCTACTTTGCTCCGCGGAGGAAGCTGGGGTACAAGGGGGCCAGTGCTGGCCACACAGCAGCGC
AGCCGAGCCCCAGGAGCCCGTCAGGCCACAGCCCCTGGCACTGCAGGTGGCCTCCCTCCAGAGACTCGAGTCCCC
ATGATTCCCTCCTCGTCAGTCTCTCAAAGACCCCATGGTCCATCCCCTGAGGGTGGTCAGCCAAGGTCCCCGTTT
CGTGGGATGCCATAAAAGCCGCCAGTGGGACCCACAGTCACACAGAGCGCCTCACCTGCATCCTCTCCCCACA
AGAGCCCCAAAGATCCACGGGAGAGGGGAGAGGGACGCACAGCACTGCCTGCCAAGCGAGAATGCAGGCCCGC
CCCCCTCGGCCCTCACCACTCTTTCTACAGCCTAATTTATTGGATTCCCTATTCTAGCCATCTCCGTGGCCAA
TGTGACTACCGTGCCAGCAGCGGGGGCGGCCAGCCTCTGAGTCCCGTGGGGCCCCGGCTCCACCGGTGCCAAA
CCCAGCCCCTGCGGCCGTACCCCGCCAGCCTACACTGCCAGCGCCACCGGGGCACACGGGCCCTCTGCTTGCCA
GCCAGGAGTGCAGACACCATGTTCCAGCTCAGTGCCAAAGAGGGGTACCAGGGGGAGCTGTCTGCGGAGCCAG
CGCCTGCCCGAGAGAGACCCACCGCCACCGTGTGCCTTTCCCGGGCCCTCAGCCCTCGGGCCGGGCACCACCCC

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FIGURE 6342B

CAGTCCCCCAGTAAA

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FIGURE 6343

MPVLSRPRPWGNTLKR TAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRL
LWLLRLLFPRLVLCRETGLLALHSAALVSR TFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVN
SAIRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLRNPDQSLTEDVVAF AASVAHLYSNLTKPLLDVAVT
SYTLLRAARSRGAGTAWPSAIAGLVVFLTANV LRAFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHE
VELALLQRSYQDLASQINLILLERLWYVMLEQF LMKYVWSASGLLMVAVP IITATGYSESDAEAVKKALEKKEE
ELVSERTEAFTIARNLLTAAADAIERIMSSYKEV TELAGYTARVHEMFQVFEDVQORCHFKRPRELEDAQAGSGT I
GRSGVRVEGPLKIRGQVVDVEQGI ICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNCGCKSSLFRILGGLWP
TYGGVLYKPPPQRMFYIPQRPYMSVGS LRDQVIYPDSVEDMQRKGyseQDLEAILDVVHLHHILQREGGWEAMCD
WKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQA AKDAGIALLSITHRPSLWKYHTHLLQFDG
EGGWKFEKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGP GGLQGAST

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FIGURE 6344

TTTCCGGCCGCGGTATGAGGGGCGGGGCGGGGCTGCTGTGGGAGAGTTTCGGTTGCTGCGGCGGGGCTGCACGT
TGACTGTGGGAAACTCGGAAACAAGCTCACATCTTCCTGTGGGAAACCTTCTAGCAACAGGATGAGTCTGCAGTG
GACTGCAGTTGCCACCTTCCTCTATGCGGAGGTCTTTGTTGTGTTGCTTCTCTGCATTCCCTTCATTTCTCCTAA
AAGATGGCAGAAGATTTTCAAGTCCCGGCTGGTGGAGTTGTTAGTGTCTATGGCAACACCTTCTTTGTGGTTCT
CATTGTTCATCCTTGTGCTGTTGGTCATCGATGCCGTGCGCGAAATTCGGAAGTATGATGATGTGACGGAAAAGGT
GAACCTCCAGAACAATCCCGGGGCCATGGAGCACTTCCACATGAAGCTTTTCCGTGCCCAGAGGAATCTCTACAT
TGCTGGCTTTTCTTGTGCTGCTGCTTCTGCTTAGACGCCTGGTGAATCTCATTTTCGAGCAGGCCACGCTGCT
GGCCTCCAATGAAGCCTTTAAAAAGCAGGCGGAGAGTGCTAGTGAGGCGGCCAAGAAGTACATGGAGGAGAATGA
CCAGCTCAAGAAGGGAGCTGCTGTTGACGGAGGCAAGTTGGATGTGCGGGAATGCTGAGGTGAAGTTGGAGGAAGA
GAACAGGAGCCTGAAGGCTGACCTGCAGAAGCTAAAGGACGAGCTGGCCAGCACTAAGCAAAAACTAGAGAAAGC
TGAAAACCAGGTTCTGGCCATGCGGAAGCAGTCTGAGGGCCTCACCAAGGAGTACGACCGCTTGCTGGAGGAGCA
CGCAAAGCTGCAGGCTGCAGTAGATGGTCCCATGGACAAGAAGGAAGAGTAAGGGCCTCCTTCTCCCTGCCTG
CAGCTGGCTTCCACCTGGCACGTGCTGCTTCTGAGAGCCCGGCTCTCCCTCCAGTACTTCTGTTTGTGC
CCTTCTGCTTCCCCCATTCCTTCCACAGCTCATAGCTCGTCATCTCGGCCCTTGTCCACACTCTCCAAGCACAT
TACAGGGGACCTGATTGCTACACGTTTCAAGTGCCTTGTGCTGTCATCTGCTTGGCCTGGCCAGGCCTGGCACAG
CCTTGGCTTCCACGCCTGAGCGTGGAGAGCACGAGTTAGTTGTAGTCCGGCTTGGGTGGGGCTGACTTCTGTT
GGTTTGAGCCCCTTTTGTGTTTGGCCTCTGGGTGTTTCTTGGTCCCGCAGGAGGGTGGGTGGAACAGGTGGAC
TGGAGTTTCTCTTGAGGGCAATAAAAGTTTTCATGGTGG

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FIGURE 6345

MSLQWTAVATFLYAEVFVLLLCIPFISPKRWQKIFKSRLVELLVSYGNTFFVVLIVILVLLVIDAVREIRKYDD
VTEKVNLRNNPGAMEHFHMKLFRAQRNLYIAGFSLLL SFLLRRLVTLISQQATLLASNEAFKKQAESASEAAKKY
MEENDQLKKGAADVGGKLDVGNAEVKLEENRSLKADLQKLKDELASTKQKLEKAENQVLAMRKQSEGLTKEYDR
LLEEHAQLQAAVDGPMDKKEE

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FIGURE 6346

GCTTCTGCGCGCCGGGGCCGCCTCTCCTTCCGCCGGTGCCGCGGCGCCTCATGGAAGCCCCGGAGGCGGCGGAGG
GGGGCCTGCAGCGCGGGGCCCGGAGGGCAGCCGGCGCCCGAAGCCAGGGTGCACTTCCGAGTGGCGAGGTTTCATC
ATGGAGGCAGGTGTCAAGCTAGGGATGCGGTCCATTCCCATTTGCCACTGCTTGCACCATTTACCATAAGTTCTTT
TGCGAGACCAACCTGGACGCCATGACCCCTTACCTGATTGCCATGTCTTCAATTTACTTGGCCGGCAAAGTGGAA
GAGCAGCACCTGCGGACTCGTGACATCATCAATGTGTCCAACAGGTACTTTAACCCAAGCGGTGAGCCCTGGAA
TTGGACTCCCGCTTCTGGGAACTCCGGGACAGCATCGTGAGTGTGAGCTTCTCATGCTGAGAGTTCTGCGCTTC
CAGGTCTCCTTCCAGCATCCACACAAGTACCTGCTCCACTACCTGGTTTCCCTCCAGAACTGGCTGAACCGCCAC
AGCTGGCAGCGGACCCCTGTTGCCGTACCGCCTGGGCCCTGCTGCGGGACAGCTACCATGGGGCGCTGTGCCTC
CGCTTCCAGGCCCAGCACATCGCCGTGGCGGTGCTCTACCTGGCCCTGCAGGTCTACGGAGTTGAGGTGCCC GCC
GAGGTGAGGCTGAGAAGCCGTGGTGGCAGGTGTTTAATGACGACCTTACCAAGCCAATCATTGATAATATTGTG
TCTGATCTCATTGAGATTTATACCATGGACACAGAGATCCCCTAAGGTCCTGGCCCAGGCCTGCCCAAAGAGAAG
CCACATCTGCGTTTGTCTTTGAGAGGACTTTGACTACAATACAGGCATGACATCAATGAAAGGAAAGTCATGAA
ATCGATGAGACTGAATCCCTACGGATTTCTTAAAAGCCAGATTTGTAGGGAGAATGAATGTGCAACGTGGCTGAA
ATCTATTTTGTGTAATAAAAAGGTGATACAAGTC

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FIGURE 6347

MEAGVKLGMRSIPIATACTIYHKFFCETNLDAYDPYLIAMSSIYLAGKVEEQHLRTRDIINVSNNRYFNPSGEPL
LDSRFWELRDSIVQCELLMLRVLRQVSFQHPHKYLLHYLVSLQNWLNRRHSWQRTPVAVTAWALLRDSYHGALCL
RFQAQHIHAVVLYLALQVYGVEVPAEVEAEKPWWQVFNDLTKPIIDNIVSDLIQIYTMDEIP

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[illegible]

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FIGURE 6349

TTTAGGGAGAAGAAAGCAACCCCTTAAAAATAGAGGAAAATGAAGCTGCTTGGATTACCCTGTTGAAGTTCATCTCT
GCCTGTGCCATGCATGAAAAAATACTGGCAAAGTCTTCACTTACATGAGTGTTAGACTCCATGTTCCCAGTGGGT
CTCGGGGTTTCAGAACTGAGTGCTCTCATCCAAGCAATAGGAGCGTCGACCTCAGGAAAGCCCAAGTGTGTTTGTGT
GTATTTTGAGGAGTGGGTTATCTGTTGCACTGAGCCTCTCTGTGTATTTTCTTCTTTTTCAGCAGAACAAGGG
GAGGTGGACATGGAGAGCCACCGGAATGCCAACGCAGAGCCAGCTGTTTCAGCGTACTCTTTTAGAGAAATAGAAG
ATTGTCGGCAGAAACAGCCCAGGCGTTGGCAGCAGGGTTAGAACAGCTGCCTGAGGCTCCTCCCTGAAGGACACC
TGCTTGAGAGCAGAGATGGAGGCCTTCTGTTTAC

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FIGURE 6350

CAGAGTTTCGCCATGGCCCCGGGGCCCCAAGAAGCACTTAAAGCGTGTTGCAGCGCCGAAGCATTGGATGCTTGAC
AAACTAACGGGTGTATTTGCACCTCGTCCATCGACAGGTCCCCACAAGCTGAGGGAATGTCTTCCTCTGATCGTC
TTCCTCAGGAATAGACTCAAGTATGCGTTGACTGGAGATGAGGTAAAGAAGATATGTATGCAACGTTTCATCAA
ATTGATGGCAAGGTTTCGAGTGGATGTCACATACCCTGCTGGATTTCATGGATGTCATCAGCATCGAGAAGACAGGT
GAACATTTCCGCCCTGGTCTATGACACCAAGGGCCGTTTTGCTGTTTCACCGCATCACAGTGGAAGAGGGCAAAGTAC
AAGTTGTGCAAAGTGAGGAAGATTACTGTGGGAGTGAAGGGAATCCCTCACCTGGTGACTCATGATGCTCGAACC
ATCCGCTACCCAGATCCTGTTCATCAAGGTGAACGATACTGTGCAGATTGATTTAGGGACTGGCAAGATAATCAAC
TTTATCAAATTTGATACAGGCAATTTGTGTATGGTGATTGGTGGAGCCAACCTCGGTCGTGTTGGTGTGATCACC
AACAGGGAAAGACATCCTGGTTCCTTTGATGTGGTGATGTGAAGGATGCCAATGGCAACAGCTTTGCCACGAGG
CTTTCCAACATTTTGTTCATTGGCAATGGCAATAAACCTTGGAATTTCCCTGCCAGGGGAAAGGGCATTTCGACTT
ACTGTTGCTGAAGAGAGAGATAAGAGGCTGGCCACCAAACAGAGCAGTGGCTAAATTGCAGTAGCAGCATATCTT
TTTTTCTTTGCACAAATAAACAGTGAATTCTCGTTT

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FIGURE 6351

CTAGTTTCTCAGGATCATGTCTGTGAGCCAGGATTCTGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
ATGCGTCATTGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGACATCTATGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCAAGCCATTCTACCTTGTATCAGGGGTTA
TAATGTAATCGCTCAAGCCCGATCTGGGACTGGGAAAATGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGTAGACTACATGGGTGCCTCCTGTGTCATGCCTGTGTGTCAGGGGCACCAATATGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTAGCCGTGTGTTTGATATGCTTAACCAGAGATA
CCTGTCTCCCAAATACATCAAGATGTTTGTACTGGATAAAGCTGATGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTGCTGAGCTACAATGCCTTCTGATAT
GCTTGAGGTGATCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
CATCCGCCAATTCTACATCAACGTGGAACAAGAGGAGTGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGAAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACTGAGAAGATGCATGCTCG
AGATTTCACTGTCTCCGCCATGCATGGAGATATGGACAAAAGGAGCAAGACGTGATCATGAGGGAGTTTCATTC
TGGCTCTAGCAGAGTTTTGATTACAACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACCTATATCCACAGAATCAGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCAAGACATTGAGATCTTCTACAACACCTCCAT
TGAGGAAATGCCCCAATGTTGCTGACCTCATCTGAGGGGCTGTCTGCCGCCAGCCCCAGCCAGGGCTCAATC
TCGGGGGTGCTGAGGAGCAGCAGGAGAGGGGAGTGAAGGGAGCCAAGGGATAGACTTGTCAATTTTTTTTCTTTGA
ATAAATGTCACTTTTTTGAGGCCAAAA

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FIGURE 6352

ACTTCTGTTCCAAAGGCTGGGAAGAACTAAGCTGCCCCAGCTCCTCCCATTTCTTGGGCAGGGCTCTTTCTGTT
GTGTGTTCCCTCCAGGGCCTGTCTGTACCGAGCTCTGTCTGTITCCAGCCTTCATCCTTCTGGCTGTTGCTTTTC
CTCTTAAGGGCCTTAGAACTCTTGCTCTTCTGGGCTGTGGGGGAATGAGTGTCTTGCCATTTGCCAGCCTAAT
GCGCATGGTTTTCTGCCCTGATAACAGGAGTGAGTGAGCCCCCTCAGACCTGCACTCTGGGTGCTCCTGCTTTCA
AAGTTCTTAATAGTGAATGCTTTAAAATTAAAGTCATCACAAAATGGAAGTTTTCCCAGGGTGGAAAACAAGAG
GAAGTGCTGCTGTAATTGGGAGCACAAAGGGGCCTCCAAAAAGGAGCCCCACCTCAGCATCACTGCCTTATTTGT
GGCCTCCGTGGGGTGAGTGGGGTTCTCTCCTCCCTCCCTCCCTCCTCCTGGGGTGGGAGGGCGCTCCTATTCCCA
TCTTTGTGTTCCCTGGAGGCAGGTATCACAAAACATTTGTGAATTGCTTTAGGTGCAGGGACACCACCCACTCAG
GACTTTTCCCATCATCCCTTCCATTGCCACACCCTAGATCCAGCCTCAGGAACATAAAGTTTTGAGAAAAGCA
GGCGGTAGAGCAGCAGCTTGGTGCTCTCAGCGGTGGCTGGCTGGCATTTTTCTCTAGCATTGTGGTGCCACCTTC
CCTCCTTGTCCCAAGGTTATAAGGCCTTGTCTTTCTTTGGAATCATAAAGTGAACAGAGTCCCCAGAACTCG
TGTGGCCATTTCCGCCAGCATCACTCCCCGGTGCTGTGGGTCCCGGTGTACCTAATGGGAGAACGATCCCATG
TGCTAGCCAGAAATATACCGTCTCTTGAAGGAAAGCAGGAGCTCAGACTTTTAGAGCCAGCTGTGGCTTCGGACC
CAAGGCCTGACCTAGGCTGCTATCCTAATATTGCAGAAGGGGCCTCTCTTCCAAGCCCCACCCTAAGGGTTAGCC
CTTGGCCAAATCTTTTGCCATCTGGTCCCAGCTAGGCTTTCTGACTAAATAAGCAATAAGAGGGTCTAAGCTGA
CTGAGTTGAAGGACCCTTTCCACCCTCCCTTGGATCTCCATGTTTTTCCAGATGGAGGAAGAGCATGTGCCACC
CCCTGTCTTAACAGGCTTGTCCAAGTGCTTGGTGTTGGGACCCAAGACCAAGCCAGGATGGCTTGGTGGGAGTG
TCCCTGTCTGCATCTGCATGAAGCCCCTGCTTTCTAGGCCTCACTCCCATCAGAACCCTGCCTGCCACCTGCAAC
TCCCCACAGCAATGCCATTCCCCTTGGCCCAGAGAAGCTACTCAGCCAAACCTAGCCAGGGTCTGTTTATGTA
GACCAGAGCCAGCCTAGTCATTATTGCTGTCTGGGTTTCCAGTTTCACTGTGTGTTAGGGCGAGGGATGATTGTA
AAATTTGCTCCTCAAAGGAATCAGGCCAGACTCAATTTGGAGGGCAAGACAGGGAGGAGGCGCTTCATCCCAG
ACTCTCTTCTAGGGCTTCCCACCATCAGCCCCCTCCACTTGAGACTGGTCTTCAGGAGGCAATAGGCCACCATGC
CTGGTCAGCATCAATTCAAGCCATGCCAGGAATCTGCCTACCTGCCAGGTTCACTTCCCTTAAGGTGCTCTTAA
GGGACACACTGTGTCTCTGTATTGGGCTTCTAAATCAAAGCCTGATGTTTCGTGTCCCTCTCATAGGGGGAGCT
TTGGATACAGGACCAGTTTGGAAAAGGGTCAGGTAAGGGTTTCCACTCTGCACATTGTAGAGGGGACGCTCGGTA
GCCATGGGTCCCTTACTAAAGAGGTTGAGTGAATTTGCCTTCAGTTAACCTGGGACCTTCTGTTTAGCTTCCTT
CTGCTTCCCAAAGATTTTAAGCATTTTGTAAATGTATAAACTCACCTCTGGCAACAGTGGCCAGATGCTGCTTT
GTGCTATGTAAAGGCAGTCTTTCCCTGGGAAATGGATGCTATTCTATTCTGCTGCCCCCTACCTGTTCTGAGGCT
TCATTTAGAAAAGAAATACCCTCAGAAGGCTGTCTGGCACCAGTGTCTAGCCAGGCCAAATATATGAGAAAGG
TAAGTCCATTTTCCCTTCAGGTCTCAGTGGATGACTTAACCACTGCTGTCCCTTGGTCCCTTTTCTTAAACA
GGGGTTTAGTTCTGTCTTTTATCCTTTTTTCTAAATGCTGGTAAATATCTACATTACGCCAGGAAGAGGAGGCC
AGAGGTGCGGCCAGCTGCCCCATTCTTTTAACGTTGTAGGGCCTGCCCTGGAGTGGACCTTCTCTTTGGGCCT
CGTCAGCTTTTTTGTCTTATCATATTCCATTTTGTGCCACTTTCCCCCTTCAAGATGCCATTTGGAGGGTAGGGGA
TCTGCTTTCCACTGTGAGTGGGCTATGAGATTCTGACTACCTTGCTTACAGATTCATGGTTTGATAAATTTGTTG
CATTCAAAAACCTTGTAATGCAGGACGCCATTAAGTGTCTGTTTAAATTTTTGGATTATTTATATTACTTACAATT
AATTAATAAAGTGGGTTTAAAAACCT

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FIGURE 6353

AACCTACTACGTGCGGCGGCAGCTGGGGCGGGAAGGCGGGAGCTGGGGGCGCTGGGGGCGCTGCGGCCGCTGCGG
CCGCTGCAGCCGCTGCAGCGCCAGGGTCCACCTGGTCGGCTGCACCTGTGGAGGAGGAGGTGGATTTCAGGCTTC
CCGTAGACTGGAAGAATCGGCTCAAAACCGCTTGCTTCGCAGGGGCTGAGCTGGAGGCAGCGAGGCCGCCGACG
CAGGCTTCCGGCGAGACATGGCAGGGCAAGGATGGCAGCCCGCGGCAGGGCCTGGCGAGGAGCGCGAGCCCGCG
GCCGCAGTTCCAGGCGTCTGCGGGCGCGAGCACGCCGCGACCCTGCGTGCGCCGGGGCGGGGGGGCGGGGCCTC
GCCTGCACAAATGGGGACGAGGGGGCGGGGCGGCCACAATTTGCGGCCAACTTGACCGCGCGTTCTGCTGTAA
CGAGCGGGCTCGGAGGTCTCCCGCTGCTGTATGGTTGGTTGCTAACTGCATCGTCGCTGTGTCCAGAACA
TGGGCATCGGCAAGAACGGGGACCTGCCCTGGCCACCGCTCAGGAATGAATTCAGATATTTCCAGAGAATGACCA
CAACCTCTTCAGTAGAAGGTAAACAGAACTCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCCTGAGAAGA
ATCGACCTTTAAAGGGTAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTTTC
TTTCCAGAAGTCTAGATGATGCCTTTGGTGGCAGTTCTGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTA
AACTATTTGTGACAAGGATCATGCAAGACTTTGAAAGTGACACGTTTTTTCCAGAAATTGATTGGAGAAATATA
AACTTCTGCCAGA

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FIGURE 6354

TAGAGCAGACAAGCCGCCCCCGCGCTCCTCCCAGCAGCTTCTATCCCGGAAGTTGATGCCGAGCGCAGATCGCT
TGCAGCTTGCTAGCTGTGTGGGCTGGGAGGTCTGGTAGGGCTGAGCTTGCAAGAGGATCAACATGCCTTTGGCTA
GAGATTTACTACATCCGTCCTTGGAAGAGGAAAAAGAAAAACATAAAAAGAAACGCCTAGTACAAAGTCCAAATT
CTTACTTTATGGATGTAAAATGTCCAGGTTGCTACAAGATCACCACGGTTTTTCAGCCATGCTCAGACAGTGGTTC
TTTGTGTAGGTTGTTCAACAGTGTGTGCCAGCCTACAGGAGGAAAGGCCAGACTCACAGAAGGTATATCATTG
GCATTCTCCAACCCAGTGATGAGATTGATGATTATAAATGTCTCTATCTTCACTGAAAAGTTTAAAGAAATCTTA
ATGATTACCAAATAACTTATCTTTCATTGTGTGCTTTTCAGTAAAGAATGGCCTGTTCAAATGGATATATTTATA
CTCTTGACCTTGCAGTGAACTCCATTGACTTATTTTTCTTAGTTTAGAACACATTTATTCACTTAGTTTGCTTAA
CTTGGAATAAATTAAGTCAGAATAGAAGCAAAAGAATAACTACATGTTATAGGACATGCAGATTTATTTATTTAT
TTATTTATTTATTTTTTTTTTTTTTATTAGGAGTCTCGCTCTGTCAACCCAGGCTGGAGTGCAGTGGCGCCATCTCAGC
TCACTGCAACTTCTGCCTCCCCGGTTCAAGTGATTCTCTTGCCCTCTGCCTCCCAAGTAGCTGGGACCACAGGCGC
GTGCCACCATGCCTGGCTAATTTTTTGTATTTTAGTAGAGGTGGGGTTTCACTGTGTTAGCCAGGATGGTCTTG
ATCTCCTGACCTCATGGTCTGCCCACCTCAGCCTCCCAAAGTGCTGGGATTATAGGCATGA

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FIGURE 6355A

CACAACCGTGACAGACTGCCATTCTCTGAGTCTCTTCTGGCCATGGGCCCCCGGAGCCGTGAGCGTCGGGCAGGCG
CGGTACAGAACACCAACGACAGCAGCGCCCTCAGCAAGCGTTCCCTGGCCGCGCGCGGGTACGTGCAGGACCCCT
TTGCCGCGTTGCTGGTTCCGGGCGCGGCGCGCCGCGCACCCTCATTACCGAGGCTACTACGTCCGCGCACGCG
CCGTGAGGCACTGCGTGCGCGCTTTTTTGGAGCAGATTGGCGCGCCCCAGGCCGCGCTTCGCGCGCAGATCTTGT
CTCTCGGCGCTGGCTTCGACTCGCTCTATTTTCGCTTAAAAACCGCGGGCCGCTTGGCCCCGGGTGCAGTCTGGG
AGGTGGATTTTTCCGGACGTGGCGCGGCGCAAAGCAGAAAGGATTGGAGAGACGCCAGAGCTGTGCGCGTTAACCG
GGCCTTTTCGAGAGGGGGGAGCCCGCGTCCGCGCTGTGCTTTGAGAGCGCAGACTACTGCATCCTGGGTCTGGACT
TGCGGCAGCTCCAGCGAGTGGAGGAGGCCCTGGGCGCGCGGGCTCGACGCAGCCTACCCACTCTGCTCCTGG
CCGAGGCGGTGCTGACCTACCTCGAGCCGGAGAGTGCCGCGGCCCTCATCGCCTGGGCAGCCAGCGTTTTCTTA
ATGCCCTTTTCGTGGTCTATGAGCAGATGAGGCCCTCAAGACGCCCTTGGCCAGTTTCATGCTGCAACATTTTCGGC
AGCTAAACTCCCCCTGCATGGCCTGGAGCGTTTTCTTGACGTGGAGGCGCAGCGGCGCGCTTCTTCAAGCTG
GCTGGACCGCTGCGGTGCGTGGACATGAATGAATCTATCACTGCTTCTTCCCGCAGAAGAAGCCGGCGGG
TGGAAATATTGAACCTTTGACGAATTTGAGGAGTGGCATCTGAAGTGCGCCATTATTTATTCTGGCAGCTT
CTAGGGGAGACACCCTCTCCACACCCTAGTGTTTTCCATCCTCAGAGGCATTTCTCGCGTAAATCCTGCTTCGC
CTTCAGGGGTATTCCCTGCCAGCGTAGTCAGTAGCGAGGGCCAGGTCCCAAACCTGAAGAGATATGGCCACGCCCT
CTGTCTTCTTGAGCCAGACGTTATTTCTCAGTGCGAGGAGATTGGAGAGCAGGAGGGGCGGCACTGCCGAGTGA
GCCAGTTTCACTTGCTCTCAAGAGATTGTGACTCTGAATGGAAAGGCAGCCAAATAGGCAGTTGTGGGACTGGAG
TTCAGTGGGATGGACGCCTTTATCACACCATGACAAGACTCTCAGAGAGTCGGGTCTGTTCTGGGAGGGAGAC
TGTCCCCAGTAAGTCCAGCCTTGGGGGTTCTCCAGCTTCATTTTTTAAGAGTGAGGATAATAACACTGAGGACC
TGAAAGTGACAATAACAAAGGCTGGCCGAAAGGATGATTCACCTTTGTGTTGTGGCGGCATTCAACAACAGAAG
TGTCTGTGACAATCAGGAATATTTGTTTGTGTATGGGGTCAAGCGTGGTGGAACCTGTACTAAGTGACTGGC
ATTTCTCCATGTAGGGACAATGGCTTGGGTGAGATCCAGTGGAGGGAGAAGTACCTGAAGCCCCGCATTCTC
ACAGTGCCTGCACTTGGCAAGGGGAGCCCTTATTGCTGGAGGTCTCGGGCTTCTGAGGAGCCATTGAACTCTG
TGCTCTTCTGAGACCAATCTCTTGTGGATTCTCTGGGAGTCAGTAGACATCCAGCCTCCCATACCCCAAGGT
ACTCCACACAGCTCATGTGCTCAATGGAAAGCTGTTACTGGTTGGAGGGATCTGGATTCACTCCTCCTCATTTT
CTGGAGTGACTGTGATCAATTTGACTACAGGATTGAGCTCTGAGTATCAGATTGACACAACATATGTGCCATGGC
CATTAAATGTTACACAACCATACTAGTATCCTTCTTCTGAAGAGCAACAGCTCCTGCTCCTTGGAGGTGGTGGGA
ACTGCTTTTCTTTGGTACCTACTTCAACCCCATACAGTCACATTAGACCTTTCTTCTTAAGTGCTGGGCAGT
AAGGACTGGACTAATATTCAGGACCCACTAAAGTAGACAATAAAGTTTTCCACAATAGGATGACCTCTAGCTA
TAGATACTGCCACTCCTCCTTTCCCAATCCTTTTTTCCCTTAGCATTATTCAGTGCAAAAAGTGAAAAAGGTTG
GTAAATAGGTAAATACCTAGAAACAATCACTACAGAAAACAGCTGAAGACAGTGGCCATGCACTCCGAGAGGA
GTAGTGGTCTGCCTCTAATTTTCTAATCTAAGTTTCGTTTATTGAGTTACAGTGGTCTTTAGTAAAGTAAACAAT
TTCCCAATCCAGGCCTTGTGATTTGAGATGGTACCTTAGAAAAAGTTACACGCAGTTCCGTGGTTGAATATATT
TGAGATGGTACCTTAGAAAAAGTTTTACGCAGATCCTTGGTTGAATATAGTTGAGGGAGCGTAGTATTGACAATT
CTTCATGTAGGAAACCTGAAATGAACACAGTCACAGTTTGATTAAACATTGTCCTGTTTGTGCAACAGAAAAAC
TCGGATAGTTTTTAACAACAGGAAACACTTGTAGGACTTTCCTTTACCAACATACTTTTTAAATGTTTGTCTATTGG
TTCCATATTTATTTAGATTTATAAGTGTCAATAAAGCAAACCTTTTGATGCCTCAATTCATTTTGACGGGGTATA
ATAATGTTTTGTTCAGATATACTCTCCACCTTTTACTGTTCTGTGCTCCAAGAGGCTGACCTTTATGGGCTGCA
TCAAGGAGCTCTCTTTACTTTTTGGTTGAGTTCCACCAGTCAGAGGCACCAGAGGGGAATGGGGGCAAAAAGAAG
AGTGAGAGTGAGTTGGTATTTATTTCCCAATTCCTTCCCCTGTTGGTTTGCAAGTTGGCAGTGCGCAGCATTTCTCTG
TCAAAGGCTACAGCTCCTGCCGTGTAATCCTTTCCTGAAGACAGAGTTCTAATTCTGCATCATCCAGGTTTCAG
TAATTGTTTCTTTACTTCACCTTTTCAGGCCTAGGAGTTGTGATGGCTCTTTGCTAGACCTGAAGTGTACTGTCC
AATGTGGTAGCTATTGACAACATGTGACTATTTAAACGAATTAATAAATTCAGTGGCTTAGTCACATTGACCACA
TTTTAAGTGCTTAATAACTATGTGTGGCTTTGGCTACTGTATTAGACAATGTAGATGTAGAACATTTTCATCGTTA
CAGAAATTTCTACTGGACACTGCTGACTGGATATCTTGACTTGGTTTCCCTTAACCCCTACTCAGCCCCCTATAGT
TAGCATCCCCATTAACCTCAATTATCCCTTTTATATGGGAATCTGTTGCCTAGTGAGCCATGTGAGATCAATGAAA
TAGCTATTATCCTTAAATTTGAGCCTTAATTTGTATCTAAATATGCATACCTTGTGAAATATACACCTCAA
AAAATGTAGTGCTTTGGTGGTAATAAGTGTATTACTTTAGTATTTCTTCTTAGTCCTAGAAACCTTAGTAGTTT

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FIGURE 6355B

TCATTCTACAAGTGCCTAAATGATTATTATGAACCATCATTGATGACAAATTGCATCCTTTATTTCTATTAATTT
TGCATATAAATGGATGTGAAAGGTGATTAATATAAAAACCAAGTAGCAAACACAAACCTAAGTGTATGGAGAGGA
CAGTCTTGGCTCTGTTAGATGAAGCCTCCCCGGGGGAGACCAGCTGAATGAGGGTTGTGGTATAGGCTGGGCATG
GTGGCTCACGCCTATAATTCCAGCACTTTGGGAGGCCAAGACAGAAGGATCACTTAAAGCCAGGAGTTTAAGACC
AGCCCAGGCAACAAAGTCAGATCCCCATCTCTACAAAAAATAAGTAGGCACGGTGGTGTGTGCTTGTAGTCTTG
GATACTCTGGAGGCTGAGGTGATAGTGAGCTGTGATTGTGCCACTGCACTCCTGCCTGGTTGACAGAGTGAGACC
CCGTCTCTTAAAAAGAAAAAAAAAAAAAGGTTGTTGTCCAACCTTCAGCTTTCCTGATACTTTGTAAGAGCCATTC
TAGGGAAAGCATTGGTTATGGCTATGACTGAGTCCTGGGAAACAGGGCTTATTACAGCTGGGAAGACATCTGGCA
AGGCGATCAGTGGGCCAGGTAGTAGAAAACCTGGCAGGGAATATGATCAGCAGGAGAAAATGGCTGTTCTGTATTT
CCTGTTTCTAAGTTTACTACAGCACACCCCAGCTTTCAGGAGCAGATAAAAGCAGAACACTGTGATGAGGCCAGG
CGCAGTGGCACATGCCTTGATCCCAGCACTTTGGGAGGCCAAGGCTGGCAGATCACTTGAACCTCAGGAGTTGGAG
ACCAGCCTGGCCAATATGGTGAAACTCCGTCTCTCCCCAAAAAAAAAAAAAAAAAAAA